Southern Methodist University
General Information
Undergraduate Catalog
2021-2022

Catalog Policy and Legal Statement

Bulletin of Southern Methodist University 2021-2022 Vol. CV

Southern Methodist University publishes a complete bulletin every year. The following catalogs constitute the General Bulletin of the University:

- Undergraduate Catalog*
    - Cox School of Business
    - Dedman College of Humanities and Sciences
    - Lyle School of Engineering
    - Meadows School of the Arts
    - Simmons School of Education and Human Development
- Graduate Catalog*
    - Cox School of Business
    - Dedman College of Humanities and Sciences
    - Dedman School of Law
    - Lyle School of Engineering
    - Meadows School of the Arts
    - The Moody School of Graduate and Advanced Studies
    - Perkins School of Theology
    - Simmons School of Education and Human Development
    - SMU Guildhall

In addition, certain locations or programs provide their own schedules and information, including:

- Professional and Online Studies
- SMU Abroad
- SMU-in-Taos

Every effort has been made to include in this catalog information that, at the time of preparation for publishing, most accurately represents 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. An addendum includes graduation, degree, and transfer requirements that do not appear in the online catalog but apply in that academic year. Addenda, if applicable, are found on the left-hand navigation bar.

Information also is available at www.smu.edu.

Notice of Nondiscrimination

Southern Methodist University (SMU) will not discriminate in any employment practice, education program, education activity, or admissions on the basis of race, color, religion, national origin, sex, age, disability, genetic information, or veteran status. SMU's commitment to equal opportunity includes nondiscrimination on the basis of sexual orientation and gender identity and expression. The Executive Director for Access and Equity/Title IX* Coordinator is designated to handle inquiries regarding the nondiscrimination policies, including the prohibition of sex discrimination under Title IX. The Executive Director/Title IX Coordinator may be reached at the Perkins Administration Building, Room 204, 6425 Boaz Lane, Dallas, TX 75205, 214-768-3601, accessequity@smu.edu. Inquiries regarding the application of Title IX may also be directed to the Assistant Secretary for Civil Rights of the U.S. Department of Education.

* Title IX of the Education Amendments of 1972, 20 U.S.C. §§ 1681-1688.

Produced by the Office of the Registrar

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Southern Methodist University

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About SMU

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, shaping world changers who contribute to their communities and excel in their professions in a 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.

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

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.

At its opening session in 1915, the University had two buildings, 706 students, a 35-member faculty and total assets of $633,540.

Today, the University has more than 100 buildings, a total enrollment averaging more than 11,000 the past 10 years, a full-time faculty of 767 and assets of $3.5 billion - including an endowment of $1.6 billion (market value, May 31, 2020).

Offering only a handful of degree programs at its 1915 opening, the University presently awards over 100 baccalaureate degrees in more than 90 programs, with in five schools. The university also offers a variety of graduate programs in all of its eight schools.

Of the 12,373 students enrolled for the 2020 fall term, 6,827 were undergraduates and 5,546 were graduate students. The full-time equivalent enrollment was 6,748 for undergraduates and 4,049 for graduate students.

Nearly all the students in SMU's first class came from Dallas County, but now more than 50 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 more than 100 foreign countries; and from all races, religions and economic levels.

Undergraduate enrollment is 49 percent female. Graduate and professional enrollment is 48 percent female.

A majority of SMU undergraduates receive some form of financial aid. In 2020-2021, 76 percent of first-year students received some form of financial aid, and 25 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: Regional and National Accreditations and Cycles

UNIT	State/Regional/National Accrediting Agency	Last Review	Next Review
Southern Methodist University *(10-year cycle)* *(5-year report)*	Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097; 404-679-4501) to award baccalaureate, masters, and doctoral degrees.	2011	2016 (5) 2021 (10)
Cox School of Business *(5-year cycle)*	The Association to Advance Collegiate Schools of Business (AACSB)	2016-2017	2021-2022
Dedman College of Humanities and Sciences			
Chemistry (Undergraduate Only) *(5-year cycle)*	The American Chemical Society	2014	2021
Psychology (Clinical, Doctoral Only) *(5-year cycle unless mandated by APA)*	American Psychological Association	2020	2025
Dedman School of Law *(7-year cycle)*	The American Bar Association	2019	2026-2027
Lyle School of Engineering *(6-year cycle)*			
Civil Engineering	Engineering Accreditation Commission of ABET, https://www.abet.org	2020	2026
Computer Engineering	Engineering Accreditation Commission of ABET, https://www.abet.org	2020	2026
Computer Science	Computing Accreditation Commission of ABET, https://www.abet.org	2020	2026
Electrical Engineering	Engineering Accreditation Commission of ABET, https://www.abet.org	2020	2026
Environmental Engineering	Engineering Accreditation Commission of ABET, https://www.abet.org	2020	2026
Mechanical Engineering	Engineering Accreditation Commission of ABET, https://www.abet.org	2020	2026
Meadows School of the Arts			
Art, Art History, The Guildhall *(10-year cycle)*	National Association of Schools of Art and Design	2013-2014	2024-2025
Dance *(10-year cycle)*	National Association of Schools of Dance	2014-2015	2025
Music *(10-year cycle)* **Music Therapy** *(Reviewed with Music, submitted to AMTA following year)*	National Association of Schools of Music American Music Therapy Association (certification)	2011 2011	2021 2022
Theater *(10-year cycle)*	National Association of Schools of Theater	2015	2025

UNIT	State/Regional/National Accrediting Agency	Last Review	Next Review
Perkins School of Theology *(10-year cycle)*	The Association of Theological Schools	2020	2030
Simmons School of Education			
Teacher Education (Undergraduate) *(1-year cycle)*	State Board for Educator Certification (Texas Education Agency) (TEA)	2019	2020
Teacher Education (Graduate) (1-year cycle)	State Board for Educator Certification (Texas Education Agency) (TEA)	2019	2020
M.Ed. Accelerated School Leadership *(1-year cycle)*	State Board for Educator Certification (Texas Education Agency) (TEA)	2019	2020
M.Ed. Urban Leadership *(1-year cycle)*	State Board for Educator Certification (Texas Education Agency) (TEA)	2019	2020
M.S. Counseling *(8-year cycle)*	Council for Accreditation of Counseling and Related Educational Programs (CACREP)	2018	2026

Admission

Southern Methodist University General Admission Policy

Consistent with its vision and mission, SMU seeks to enroll students who have the potential for academic success and who will enrich the collegiate community. The rich variety of perspectives SMU seeks are those that result from differences in racial, ethnic, linguistic, socio-economic, geographic, educational and religious backgrounds; different life experiences, and talents in the arts or athletics. SMU examines each prospective student's application for admission individually to determine the nature and extent of the applicant's potential to succeed and to enrich the community. The admission review of application materials includes records of intellectual and extra-curricular achievements as well as past behavior. Through financial support, SMU endeavors to ensure that cost of attendance will not be a barrier to achieving its goal of a diverse community.

SMU collects information about the prior disciplinary and criminal history of applicants for admission to SMU. This information may be considered as part of a holistic review of applicants when deciding whether to offer admission to a prospective student. An applicant's failure to disclose complete and accurate disciplinary and criminal history in a timely manner, as required in the application process, may result in the University rescinding an offer of admission or revoking that person's status as a student. SMU's Notice of Nondiscrimination is found in the catalog.

All degree-seeking first-year students, regardless of intended major, enter the University as SMU Pre-Majors, and they are advised through the University Advising Center. Students normally qualify for entry into a major and specific degree program during their sophomore year. Applicants to BFA and BBA degree programs should refer to the admission process for those degrees in the Meadows School of the Arts and the Cox School of Business respectively. Admission into any undergraduate degree program requires the completion of minimum academic standards determined by the school in which the program is based. The specific requirements for admission into each of SMU's undergraduate schools are outlined in the admission section of that school's information in this catalog.

First-Year Admission Criteria

Selection of degree-seeking students at SMU is based on several criteria: the high school curriculum, academic performance in the classroom, grade pattern, rank in class (if available), SAT and/or ACT scores*, counselor and teacher recommendations, essay, resume, behavioral record and extracurricular activities. Although no specific cutoff is applied to any single measure, generally a student who has both accomplished a strong academic record and exhibited a variety of noteworthy and personal achievements will contribute and benefit most from the SMU experience. Matriculation to the University is contingent upon continuing academic achievement and completion of the high school diploma. The Admission Committee may rescind offers of admission for students whose academic, extracurricular or behavioral records are not consistent with information presented in the application for admission. As an independent institution, SMU has no limits on enrollment based solely on geography or distinctions in tuition, fees or other costs based on the residency of the student.

**Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2022 and Spring 2023 in undergraduate programs.*

High School Curriculum

High school curricula, including curricular rigor, academic performance in the classroom, elective choices and senior-year course load, are considered in the admission review. Applicants should submit high school records with a *minimum* of 15 or more academic units. The recommended distribution for a minimum program is as follows: four units of English, three units of mathematics (algebra 1, plane geometry, algebra 2), three units of science (including two units of laboratory science), three units of social science and two units of a second language (a two-year sequence).

American Sign Language may be used to satisfy the second language requirement. Engineering applicants should have completed four years of math (including higher-level math beyond algebra 2) and a year each of chemistry and

physics. **Note:** Most students who are successful in the admission process present credentials well in excess of the minimum course recommendations.

Home School Criteria

Home school and distance learning applicants are expected to complete the equivalent of the high school curriculum as outlined above and submit SAT and/or ACT scores*. In addition, students must submit the Home School Supplement form, which provides the education coordinator an opportunity to share his or her philosophy for homeschooling, comments concerning the grading scale and caliber of academic work completed, and a brief recommendation of the student. Access a checklist at www.smu.edu/admission/apply/firstyear/homeschool for the home school requirements. Home-schooled students are eligible for federal student aid for college if they have "completed a secondary school education in a home school setting that is treated as a home school or private school under State law" [Section 484(d)(3) of the Higher Education Act of 1965].

**Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2022 and Spring 2023 in undergraduate programs.*

Application Timetable for First-Year Students

All prospective students must complete an application form and submit a $60 nonrefundable application fee. Fee waivers are available for students who have demonstrated financial need or by admission office approval. Any student who submits an application form to SMU will be fully considered for admission. Those who do not submit additional materials (e.g. transcripts, test scores, recommendations, etc.) to provide sufficient evidence of academic and extra-curricular achievement to earn admission may be denied admission or offered a place on SMU's wait list. First-year applicants are reviewed on the admissions calendar as follows:

Application Deadline: November 1

Early Decision 1 (binding)
Early Action (nonbinding)
Notification Date: By December 31

Application Deadline: January 15

Early Decision 2 (binding)
Regular Decision (nonbinding)
Notification Date: By April 1
Note: The priority deadline for merit scholarship consideration is January 15. Applications for admission received after January 15 are considered if space is available. Notification will be rolling after April 1.

Required Testing

Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2022 and Spring 2023 in undergraduate programs. This temporary policy, which supersedes the policy below, applies to admission and scholarship consideration for all first-year applicants.

SMU requires all applicants, except dual admission applicants to Meadows School of the Arts and students who graduate from secondary schools outside the United States, to submit ACT or SAT scores. Applicants for whom test scores are required may self-report them for admission consideration as long as official test results are on file prior to beginning course work. SMU will superscore an applicant's ACT or SAT scores – combining the highest scores on each section of a test in order to achieve the highest possible ACT composite or SAT combined score. When a student submits both ACT and SAT scores, the admission office will use whichever is higher to make an admission decision. Further, a student's educational record at SMU will include only those test administrations used to compute the highest ACT composite superscore or the highest SAT combined superscore, whichever contributed to the offer of admission. If an applicant submits official ACT or SAT scores, even when not required, those scores will be considered for both admission and scholarship consideration according to this policy.

Students whose native language is not English and whose entire secondary education has not been in an English-medium school are required to present evidence of their ability to perform academic work and contribute to a classroom in English. Such students should submit one of the following:

- an official total score of at least 90 on the TOEFL English language proficiency exam with recommended subscores of at least: 20 Reading, 20 Listening, 24 Speaking, 24 Writing. Because SMU values class participation and a writing-intensive curriculum, particular emphasis is placed on speaking and writing skills. Students who score less than 90 are generally not offered admission* to SMU, or
- an official score of at least 6.5 on the IELTS Academic English competency test with recommended subscores of at least: 6.5 Reading, 6.5 Listening, 7 Speaking, 7 Writing. Because SMU values class participation and a writing-intensive curriculum, particular emphasis is placed on speaking and writing skills. Students who score less than 6.5 are generally not offered admission* to SMU, or
- an official score of at least 60 on the Pearson Test of English (PTE Academic). Students who score less than 60 are generally not offered admission* to SMU, or
- an official score of at least 115 on the Duolingo English Test (DET). Students who score less than 115 are generally not offered admission to SMU, or
- evidence of successful completion of SMU's Intensive English Program with a recommendation for degree study at SMU from the IEP Director.

*Students not offered admission to SMU based on English proficiency may be offered conditional admission pending completion of SMU's Intensive English Program (IEP) www.smu.edu/iep. SMU has successfully provided support for English language learners through its IEP and dedicated coursework for students whose first-language is not English. The University uses these tests to provide the best possible path for success to our students whose native language is not English.

SMU offers courses to support an English language learner's academic success. Students should consult with an academic adviser to enroll in the appropriate language course. Students offered admission based on scores from one of the above tests may be asked to complete an English language placement exercise prior to beginning classes. In cases where a student's skills are not sufficient to begin for-credit course work, SMU may require the student to complete the Intensive English Program prior to beginning a degree program at SMU.

Test Optional Policy for Dual Admission applicants to SMU Meadows School of the Arts:

Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2022 and Spring 2023 in undergraduate programs. This temporary policy, which supersedes the policy below, applies to admission and scholarship consideration for all first-year applicants.

Recognizing that admission to Dual Admission programs in the Meadows School of the Arts (Music, Theatre, Dance, Art, Film-BFA) require an audition or portfolio review to demonstrate an applicant's readiness for their academic program, SMU does not require an ACT or SAT score for admission consideration to those programs. Applicants should submit an SAT or ACT score report for academic merit scholarship consideration. If an applicant submits ACT or SAT scores, those scores will be considered for both admission and scholarship consideration according to the policy described above. Note that students who do not submit test scores will be considered only for artistic scholarships and need-based aid.

Students who do not submit test scores should list their Meadows major first on the application for admission. Students not admitted to Meadows via their portfolio or audition, but who still wish to be considered for admission to SMU, will be required to submit test scores at that time.

Consideration for the Performing Arts Auditions/Visual Arts

In order to pursue one of the Dual Admission Program ("dual-admit") majors, all first-year and transfer students must be admitted both to the Meadows School of the Arts via submission of a Meadows Application and audition or portfolio review, as well as to the University via the undergraduate application for admission. Admission to Meadows through the audition or portfolio process does not guarantee admission to the University. Information regarding the Meadows Application, audition and portfolio requirements and deadlines may be obtained at www.smu.edu/admission/arts or by contacting the Meadows Office of Admission and Financial Aid, Meadows School of the Arts, Southern Methodist University, Dallas TX 75275-0356; email meadowsadmission@smu.edu or phone 214-768-3217. Auditions are scheduled after the Meadows application is submitted, while portfolio work is

submitted in the Meadows application. The Meadows Application, audition and/or portfolio review are both an admission review and a review for artistic scholarships.

Transfer students entering degree programs within the Division of Theatre may do so only in the fall term. Transfer students in the Division of Dance, Division of Music, Division of Art, and Division of Film & Media Arts normally enter in the fall term; spring admission may be offered in exceptional cases. Entry in the fall is encouraged as course sequencing for transfer students beginning in the spring could delay graduation.

Consideration for the Edwin L. Cox School of Business

In order to be considered for admission into the Cox School of Business, applicants who graduate from high school in May 2020 or later must indicate a Cox major as an academic interest on their application. All applications will be processed through the main SMU Admission office. Admission to the Cox School of Business is highly selective, but holistic in nature with an emphasis on a student's academic performance. Students will be notified if they have received admission into the Cox School of Business after their acceptance to the University. If a student is not admitted to Cox, they are still eligible for admission to the University if they indicate a separate academic interest on their application.

Reserving a Place

All admitted students are required to submit a nonrefundable deposit and orientation fee. Admitted students who did not apply under a binding decision plan must submit this deposit by the May 1 deadline to reserve a place in the class. Students admitted under a binding decision plan will be notified of their deposit deadline when they are admitted. This deposit includes the nonrefundable housing deposit as well as the matriculation and orientation fees. All first-year and second-year students must live on campus unless permission is granted to live at home by the dean of Residence Life and Student Housing. To facilitate advising and enrollment, students are required to submit their final high school transcript confirming graduation prior to enrolling.

Credit by Examination, Audition and Portfolio Review

Credit by examination policies are reviewed annually and are subject to change for the following academic year. The following policies are for students who matriculate during 2021-2022.

Examinations Administered in High School

SMU grants credit and placement for scores of 4 or 5 on most Advanced Placement examinations taken in high school (see table below). Credit will be awarded only for exams taken while in high school. AP test scores are evaluated and SMU course credit is assigned based on the articulation policies in effect for the term students matriculate to the University, regardless of when the test was taken.

Students may not receive credit for an AP exam, an International Baccalaureate exam and a college course covering the same subject matter; i.e., the course equivalency will only be awarded once. Students may decline all or part of their test credit in favor of taking the equivalent credit at SMU; declining credit is an irrevocable declaration. Credit granted by SMU is not considered resident credit and does not count toward the 60 resident hours required for an SMU degree.

The Common Curriculum allows students to satisfy up to three (3) Common Curriculum Breadths with Advanced Placement credits or other test credits and/or post-high school transfer work. Additional credits may apply to an SMU degree through major or minor requirements or elective coursework.

An official copy of test results must be sent from the testing agency to the University Registrar's Office for credit. To facilitate advising and enrollment, students should submit their official scores no later than the first day of class.

Note: In response to school closings due to the impact of COVID-19, the College Board AP Exams were administered online in May 2020. SMU recognizes both the need for these changes and the effort that students already made in these challenging courses. The university remains committed to granting academic credit to students for the successful completion of 2020 AP Exams.

AP Examination	*Scores*	*Credits*	*Course(s) Credited*	*Common Curriculum Component or Graduation Proficiency Satisfied*
Art	4, 5	3 hours	ASDR 1300/ASPH 1300/ASPT 1300 (student's choice)	CA Breadth
Art History	4, 5	6 hours	ARHS 1303, ARHS 1304	HC Breadth
Biology	4, 5	4 hours	BIOL 1302/BIOL 1102	ES Breadth
Chemistry	5	4 hours	CHEM 1303/CHEM 1113	ES Breadth
Computer Science A	4, 5	3 hours	CS 1341	None
Economics:				
Macro	4, 5	3 hours	ECO 1312	None
Micro	4, 5	3 hours	ECO 1311	None
English Language/C or Literature/C	4, 5	6 hours	WRTR 10XX, WRTR 10YY	None
Environmental Science	4, 5	3 hours	GEOL 1315	ES Breadth
European History	4, 5	6 hours	HIST 20AA HIST 20BB	None None
Human Geography	4, 5	3 hours	HUM 10XX (3 hours)	None
Languages (Language or Literature):				
Chinese Language/Culture	4, 5		Score of 4: credit for 1401 and 1402, and placement in the 3rd term course. Score of 5: credit for 1401 and 1402, and placement in the 4th term course; and, credit for 3rd term course upon successful completion of the 4th term course with a grade of *C*- or above. Score of 4 or 5: encouraged to take the departmental placement assessment as score on the departmental test may qualify a student for a higher placement and additional credit than the AP score. Score of 3: required to take the departmental placement exam for course level placement. Upon completion of the course with a grade of *C*- or above, the student will receive retroactive credit for the preceding beginning (and intermediate, if applicable) courses.	
French	4, 5			
German	4, 5			
Italian	4, 5			
Japanese Language/Culture	4, 5			
Latin	4, 5			
Spanish	4, 5			
Mathematics:				

Calculus AB	4, 5	3 hours	MATH 1337	Quantitative Reasoning Foundation
Calculus BC	3 if AB sub-score of 4	3 hours	MATH 1337	Quantitative Reasoning Foundation
Calculus BC	4, 5	6 hours	MATH 1337, MATH 1338	Quantitative Reasoning Foundation
Physics:				
Physics 1	4, 5	3 hours	SCI 10XX (3 hours)	With one lab PHYS 1105 = ES Breadth
Physics 2	4, 5	3 hours	SCI 10YY (3 hours)	With one lab PHYS 1105 = ES Breadth
Physics C (Mech)	4, 5	3 hours	PHYS 1303 or PHYS 1307	With one lab PHYS 1105 = ES Breadth
Physics C (E&M)	4, 5	3 hours	PHYS 1304 or PHYS 1308	With one lab PHYS 1106 = ES Breadth
Psychology	4, 5	3 hours	PSYC 1300	SB Breadth
Statistics	4, 5	3 hours	STAT 2331	Quantitative Reasoning Foundation
U.S. Government:				
American	4, 5	3 hours	PLSC 1320	SB Breadth
Comparative	4, 5	3 hours	PLSC 1340	SB Breadth
U.S. History	4,5	6 hours	HIST 20XX, HIST 20YY	None
World History	4, 5	3 hours	HUM 10YY (3 hours)	None

Notes:

- Physics does not award placement credit for labs.
- Duplicate credit is not allowed toward an SMU degree. Students who enroll in classes that duplicate Advanced Placement, International Baccalaureate or other test credit awards will lose these credits after the fifth day of the term. Once credit is revoked, it may not be awarded again. Students must report any credit by exam no later than the end of their first term of enrollment.

College-Level Examination Program

SMU gives credit for CLEP subject examinations based on the specified minimum scores below:

CLEP Exam	*Score (out of 80)*	*Credits*	*Course(s) Credited*
American Literature	60	3 hours	ENGL 20XX
English Literature	60	3 hours	ENGL 20YY
Macro Economics	60	3 hours	ECO 1312

Micro Economics	60	3 hours	ECO 1311

CLEP credit granted by SMU is not considered resident credit and does not count towards the 60 resident hours required for an SMU degree.

SMU Departmental Examinations, Auditions and Portfolio Review

SMU also awards credit for departmental examinations offered in a variety of disciplines. Such SMU credit may not transfer automatically to other universities. Credit for examinations awarded by other institutions will not transfer to SMU. Credit awarded through SMU department exams, auditions and portfolio reviews is considered resident credit.

World Languages. All students whose native language is English are required to take a language placement examination. Scores on these examinations determine the world language competency of entering students so that they may be placed in classes appropriate to their level of achievement and degree program. Students may not enroll in a course below the level of their placement. When the student has successfully completed the course with a grade of *C-* or above, the student will retroactively earn up to 16 credit hours of University credit for the preceding courses in the beginning and intermediate levels of the language sequence. Students must enroll in the world language courses for a letter grade (not pass/fail) for the course to serve as a basis for granting retroactive credit. Language courses taken at other institutions cannot be used as a basis for granting retroactive credit. Although students may earn retroactive credit in more than one language, the maximum aggregate credit involving more than one language allowed to count toward graduation is 16 credit hours.

Physics. The Physics Department offers placement exams for PHYS 1303 and PHYS 1304. The placement exam, which must be taken in the first term that the student enrolls at SMU, is based on the final exam in the PHYS 1303 and PHYS 1304 courses. The department does not allow test credit for labs (e.g., PHYS 1105, PHYS 1106, PHYS 4311). The essential element of the lab is the hands-on experience; therefore, substitutes will not be accepted.

Mathematics. Math credit exams are offered for the courses listed below and must be taken prior to initial enrollment. Calculators are not permitted on these exams, except for MATH 1307. Students interested in credit exams for courses beyond this level may contact the Mathematics Department.

- MATH 1307 - Introduction to Mathematical Sciences
- MATH 1309 - Introduction to Calculus for Business and Social Science
  (*suggested preparation = one full year of high school calculus*)
- MATH 1337 - Calculus I
  (*suggested preparation = one full year of high school calculus*)
- MATH 1338 - Calculus II

Computer Science. The Department of Computer Science offers a credit exam for CS 1341 - Principles of Computer Science that must be taken prior to initial enrollment. Please contact Beth Minton, Computer Science Department Coordinator, for more information at minton@smu.edu.

Music. All entering undergraduate students (except transfer students from 4-year NASM schools) are required to take entrance examinations in written music theory and musicianship before classes begin. The date and time of these exams are listed in the "Orientation Schedule" published by the Division of Music each year and emailed to students. Students are advised to make appropriate end-of-summer plans to be present and on time for these exams. Students must be available for the entire testing period, and these exams cannot be made up once the semester begins. Since the exams are used for course section placement, all students are required to take the exams whether or not they are seeking credit by examination.

All music degrees require coursework in Class Piano. Prospective music majors with no formal piano study should enroll directly in Class Piano during their first semester. Prospective music majors with any amount of formal piano study must be tested individually for placement into the appropriate Class Piano course. Scheduling information for these tests is provided in the "Orientation Schedule" published by the Division of Music each year and emailed to students.

International Certificate Programs

SMU grants credit for the successful completion of the international certificate programs listed below. Credit granted by SMU is not considered resident credit and does not count towards the 60 resident hours required for an SMU degree. In certain cases, departmental examinations may be required as a part of the evaluation process.

The Common Curriculum allows students to satisfy up to three (3) Common Curriculum Breadths with Advanced Placement credits or other test credits and/or post-high school transfer work. Additional credits may apply to an SMU degree through major or minor requirements or elective coursework.

1. *The International Baccalaureate.* Six to eight credits will be awarded for scores of 5, 6 or 7 on International Baccalaureate higher-level exams in transferable subjects, with a maximum award of 32 credits. Students will not be awarded credit for standard-level exams.

IB HL Examination	*Scores*	*Credits*	*Course(s) Credited*	*Common Curriculum Component or Graduation Proficiency Satisfied*
Biology	5, 6, 7	4 hours	BIOL 1302/BIOL 1102	ES Breadth
Chemistry	7	4 hours	CHEM 1303/CHEM 1113	ES Breadth
Economics	5, 6, 7	6 hours	ECO 1311, ECO 1312	None
Film	5, 6, 7	3 hours	FILM 10XX	None
Geography	5, 6, 7	6 hours	HUMA 10XX, 10YY	None
History:				
Africa	5, 6, 7	6 hours	HIST 10XX, 10YY	None
Americas	5, 6, 7	6 hours	HIST 10XX, 10YY	None
Asia and Oceania	5, 6, 7	6 hours	HIST 10XX, 10YY	None
Europe, Islamic World	5, 6, 7	6 hours	HIST 20AA, HIST 20BB	None
Europe, Middle East	5, 6, 7	6 hours	HIST 10XX, 10YY	None
Language A:				
English A Literature	5, 6, 7	6 hours	WRTR 10XX, WRTR 10YY	None
All other languages	5, 6, 7	8 hours	1401, 1402	Second Language Foundation
Language B	5, 6, 7	8 hours	1401, 1402	None
English B	5, 6, 7	6 hours	LANG 10XX, 10YY	None
Mathematics: Applications and Interpretations	5, 6, 7	6 hours	MATH 1337, STAT 2331	Quantitative Reasoning Foundation
Mathematics: Analysis and Approaches	5, 6, 7	3 hours	MATH 1337	Quantitative Reasoning Foundation
Physics	5, 6, 7	6 hours	PHYS 1303, PHYS 1304	With lab PHYS 1105 and PHYS 1106 = ES Breadth
Psychology	5, 6, 7	6 hours	PSYC 1300, 10XX	SBS Breadth

2. *The General Certificate of Education A-Level (United Kingdom).* Six to eight credits will be awarded for grades of *A* and *B* on A-level exams in transferable subjects, with a maximum award of 32 credits. Credits will not be awarded for a grade of *C*, or for O-level and AS-level exams. Credit awards for the Art and Design A, High Level exam are reviewed on a case-by-case basis by SMU's Art Division.
3. *The Baccalaureate (France).* Six to eight credits will be awarded for scores of 11 or above, with a maximum award of 32 credits.

4. *The Abitur (Germany).* Six to eight credits will be awarded for scores of 7 or above on each of the written exams in transferable subjects, with a maximum award of 32 credits. Credits will not be awarded for oral exams.
5. *The Italian Maturita (Italy).* For the *Maturita Tecnica, Classica, Scientifica and/or Linguistica*, credits will be awarded for scores of 6 or above in transferable subjects, with a maximum award of 32 credits.

Notes:

- The Language A exam is typically taken in the native language of the student.
- Language B is a second, third or fourth language studied by the student.
- For "all other languages" under Language A and for Language B, the course prefix will match the world language completed.
- Physics does not award IB credit for labs.
- Students enrolled in courses at SMU for which IB credit has previously been awarded will have the IB credit rescinded, and the grade in the course will count toward the student's SMU GPA. Students are responsible for knowing and reporting their IB scores to SMU to prevent duplicate enrollment.

Concurrent Dual Credit/College Programs

Students may receive credit for college courses taken prior to graduation from high school if the courses meet the criteria for transfer work outlined in the Transfer Admission Criteria section of this catalog.

Students entering SMU the first regular semester following high school graduation, or transfer students entering SMU with 23 or fewer transfer credits earned after high school graduation, may use transferable dual or concurrent credit to satisfy major, minor or elective requirements but may not use this credit to satisfy Common Curriculum requirements. Official college transcripts are required for all college-level work attempted, regardless of transferability. During their first regular term of enrollment at SMU a student may opt-out of a course taken prior to graduation from high school. Opting out of a course will remove any transfer credit awarded and remove the course from the transfer grade point average. The decision to opt-out is non-reversible.

Transfer Admission Criteria

Selection of transfer applicants is based on several criteria, including academic curriculum, performance, grade patterns, behavioral and extracurricular activities, as well as other relevant experiences. For all candidates who are not entering SMU directly from high school, the Admission Committee considers the rigor of the courses attempted. All transfer students are required to complete a college-level math course before transferring to SMU. If algebra l, geometry and algebra II were taken in high school and graduation was fewer than three years ago, this requirement is waived. We recommend that all transfer applicants should have completed at least one course in English composition, a lab science, a math course beyond college algebra and at least one course pertaining to the applicant's intended major. The committee weighs overall academic performance as well as evidence of recent improvement. For some applicants, high school performance is also a factor. Candidates with fewer than 24 hours are considered on an individual basis and may be asked to submit additional information. Transfer students with fewer than 24 credits at the time of matriculation will follow the same Common Curriculum requirements as first year students. Although the average GPA of successful transfer applicants is considerably higher, applicants with a transfer GPA below 2.700 (on a 4.000 scale) are not typically successful in gaining admission. Candidates with a transferable GPA below 2.000 are not competitive for admission to the University.

Students may be admitted directly to the school of their intended major if the admission requirement of that school has been met. The specific requirements for admission into each of SMU's undergraduate schools are outlined in the admission section of that school's information in this catalog.

All transfer students who intend to major in dance, music or theatre must also audition. Art majors and students seeking a B.F.A. in film and media arts are required to submit a portfolio for consideration. Requirements and contact information are available in the First-Year Admission Criteria section under the heading Performing Arts Auditions/Visual Arts Consideration.

Prospective transfer students must complete an Undergraduate Application for Transfer Admission and submit a $60 nonrefundable application fee. An official academic transcript that includes the last completed term from each college or university attended must be sent to SMU Undergraduate Admission, PO Box 750181, Dallas, TX 75275-

0181. In addition, applicants must submit a Statement of Good Disciplinary Standing from all colleges or universities attended.

A final high school transcript (or GED high school equivalency test results), required of all transfer applicants, should be sent to the address above to confirm high school diploma as well as world language and math background. SAT or ACT scores*, are also required when less than 24 transferable hours have been earned. SAT or ACT exam results will not be required of students for whom five or more years have lapsed since high school or high school equivalent.

**Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2*022 and Spring 2023 in undergraduate programs.

Transfer Credit

Regardless of the number of transferable credit hours completed elsewhere, University policy requires that of the 120 minimum credit hours required for a degree, at least 60 hours must be SMU credit hours. That is, they must be earned in SMU courses, SMU credits or SMU-approved international programs.

No transfer credit is given for any correspondence course or work completed at a school that is not accredited by a regional or national accrediting agency. Only grades of *C*- or better in comparable courses are transferable to SMU for accepted students. Vocational-technical courses, courses below college level, credit by examination earned at another college or university, and PE activity courses in excess of two hours do not transfer. For courses not taught at SMU locations or in SMU-approved international programs, free-elective transfer credit (FETC) may be awarded for appropriate courses completed with a grade of *C*- or better at regionally accredited colleges or universities that meet SMU's academic standards. FETC is assigned by the various school records offices for transferability, or used by the Office of the University Registrar if courses are considered transferable but lack sufficient information to determine an exact equivalency. Similarly, Business Elective Transfer Credit (BETC) is used to award transfer credit by the Cox School of Business' Office of BBA Academic Advising, Records and Special Programs, for transferable courses where there is not an equivalent business course prefix.

All grades for transferable courses are used to calculate the transfer GPA. Courses with a grade of *D* or *F* are not transferable to SMU for credit, however the grades are calculated into the transfer GPA. Exceptions are made for repeated courses where the grades in the first attempts were *D*+ or lower. In these cases, only grades in the last attempts of the repeated courses prior to matriculation at SMU are used to calculate the transfer GPA, even if lower. Courses must be repeated at the same institution in which the original grade was earned or carry the same course number based on a statewide course numbering system. For repeated courses where the grade in the first attempt was a *C*- or higher, both grades will be used to calculate the transfer GPA but credit will be awarded for only one successful attempt. Transfer course grades are not calculated in major/minor GPAs. A grade of W (Withdrawn) is not used to calculate the transferable GPA. A grade of *I* (Incomplete) or a missing grade is calculated as *F*. A grade of IP (In Progress) for a current term is not calculated. This grade replacement policy for eligible transfer courses will be used in all transfer and all-college GPA calculations and other academic determinations at SMU. For a complete list of how grades are calculated please see the smu.edu/transfer.

Note: For some majors requiring a subset of courses and specific GPAs for entry, the subset GPA is calculated using the first graded attempt of these courses, even if the first attempt of the course was failed or later repeated.

Official college transcripts are required for all college-level work attempted, regardless of transferability. Transcripts must be sent directly to SMU from the institution attended. A transcript issued to a student is acceptable provided it is received in a sealed, letterhead envelope with the institution's Office of the Registrar stamp. Transcripts must be dated fewer than three years prior to processing. Coursework from one institution that appears on an official transcript from another institution will not be accepted for transfer credit. An official transcript must be issued by each institution attended. Photocopies of transcripts provided by other institutions are not acceptable.

An online version of the transfer credit evaluation is available to transfer students prior to their enrollment.

A transfer student on the Common Curriculum can transfer in a maximum of two PRW2 courses. Any PRW2 transfer courses above the maximum will be coded as non-transferable by policy (NTPL).

International Transcript Credit

All international university transcripts must be accompanied by a professional evaluation and an official transcript, including an English translation if it is not in English, and course descriptions or syllabi. It is the student's responsibility to procure this evaluation and to assume financial responsibility for it. An exception to this requirement is an exchange agreement between SMU and an international institution that is modeled after the U.S. education system.

Because of the importance of this information, SMU accepts evaluations only from the following agencies of proven reliability:

International Education Evaluations, Inc.
7900 Matthews-Mint Hill Rd. Suite 300
Charlotte, NC 28227
Telephone: 704-772-0109
E-mail: myiee.org

International Academic Credential Evaluators Inc.
PO Box 2585
Denton, TX 76202-2585
Telephone: 940-383-7498
www.iacei.net

World Education Services Inc.
PO Box 745 Old Chelsea Station
New York, NY 10113-0745
Telephone: 212-966-6311
Toll-free: 1-800-937-3895
Email: infor@wes.org
www.wes.org

Josef Silny & Associates, Inc. International Education Consultants
7101 SW 102 Avenue
Miami, FL 33173
Telephone: 305-273-1616
Fax: 305-273-1338
Email: info@jsilny.org
www.jsilny.org

The evaluations provided by the above agencies should include an explanation that the institution is recognized by the ministry of education in the student's home country and is generally considered to offer at least the equivalent of U.S. higher education credit. In addition, it should include an explanation of the credits, the grading system and course levels, as well as a course-by-course evaluation.

The expertise and reliability of a professional evaluation report is recognized worldwide and is likely to be accepted by other academic institutions, employers and state licensing boards. However, the report is not binding to SMU and it will be considered a recommendation for SMU's independent decision of the credit to be given. Information and applications from the agencies are available online. For more information, students should contact the Office of Admission.

Application Timetable for Transfer Students

Summer term entry: All application materials are due no later than June 1.
Fall term entry/scholarship consideration: All application materials are due no later than April 1.
Fall term entry: All application materials are due no later than August 1 (final).
Spring term entry: All application materials are due no later than November 1 (final).

Note: The deadline for priority scholarship consideration is April 1 for fall entry and November 1 for spring entry.

The Office of Admission recommends that prospective students submit application materials well in advance of the deadlines above, particularly for those applying for financial aid or University housing.

Application processing begins in early March (for the summer and fall terms) and in early October (for the spring term) upon receipt of pertinent data, including each official transcript through the last completed term.

Reserving a Place

All degree-seeking admitted transfer students wishing to enroll at SMU are required to submit a $650 transfer orientation and matriculation deposit to reserve a place in the academic program. This $650 deposit should be sent to the Office of Admission. Space can be guaranteed only to those students who have submitted the deposit by the deadline noted in the acceptance packet. **Note:** This $650 deposit is nonrefundable. Students seeking financial aid should wait until they receive their financial aid award before submitting a deposit.

Note that admitted transfer students cannot enroll at SMU until their final transcript has been received and evaluated for transferability and a Good Standing Form has been received from their prior institutions. For this reason, transfer students entering for the fall term are discouraged from attending the second summer term at their current institution before matriculation to SMU.

Housing Deposit

Housing accommodations are offered on a space-available basis for new transfer students who are 20 years or older. Transfer students who are 17-19 years old live on campus unless permission is granted to live at home by the dean of Residence Life and Student Housing. Housing links will be sent to interested transfer students once the student has been accepted and has sent a nonrefundable deposit of $750, which includes an additional $100 housing deposit, to the Office of Admission.

International Student Admission

International citizens and U.S. passport holders studying outside the United States who apply to SMU as first-year and transfer undergraduate students are expected to meet all requirements for admission.

For admission consideration, students for whom English is not the native language and whose entire high school curriculum was not in an English-medium school are required to submit a test score from an internationally recognized English language test as explained in the Required Testing section of this catalog.

Students who are otherwise admissible but whose English proficiency scores are slightly below those mentioned above may be offered conditional admission pending successful completion of SMU's Intensive English Program prior to matriculation. Transfer students from U.S. institutions without an internationally recognized English language test score will be evaluated on the basis of university-level grades in English composition/rhetoric courses. All students whose English composition courses were completed at a university outside the United States are required to complete an SMU English language placement exam for appropriate course-placement.

International transfer students who have completed work at a university outside the United States are required to submit the following (in English or with an English translation):

- An official transcript.
- Professional evaluation. (More information is found in the International Tran-script Credit section of this catalog.)

The expenses to be incurred in attending the University are listed in the Financial Information section of this catalog. Additional costs that international students may expect include housing and dining living expenses during school holidays, travel expenses, international student health insurance, and the international student fee (foreign passport holders only). Need-based financial aid is not available for international students; however, first-year international students will be considered for academic scholarships if their application is complete by the January 15 deadline. Some academic scholarships require an SAT or ACT for consideration. (See temporary COVID-19 testing policy in the Required Testing section of this catalog.) Transfer international applicants will be considered for all transfer scholarships for which they are eligible, provided the appropriate application deadline has been met.

After an international student has been admitted, paid the appropriate enrollment deposit and provided adequate proof of sufficient financial funds, the International Student and Scholar Services Office will issue the I-20 Certificate of Eligibility. The student will be required to produce the I-20, acceptance letter and proof of finances when applying at the U.S. embassy or consulate for a student visa.

All international students taking one or more credit hours must enroll in and pay for the University-offered health insurance plan unless they have a special waiver granted by SMU's Dr. Bob Smith Health Center.

Admission for Military Veteran

SMU welcomes applications from military veterans and will waive all application fees. Student veterans meet undergraduate admission criteria of the University as first year or transfer students. Veterans are considered for first-year admission if they graduated from high school within the last three years and have not completed any college coursework. Student veterans seeking to be competitive in the transfer admission process should have 24 or more term credit hours at a previous accredited college or university and a recommended 2.700 cumulative GPA (on a 4.000 scale). Additional information is available online at www.smu.edu/EnrollmentServices/Veterans and www.smu.edu/apply ("First Year Students" or "Transfer Students" links).

Undergraduate Visiting Students

Visiting students are those who enroll in University courses for credit but do not intend to pursue an SMU degree. This category of students is normally limited to those who 1) are degree-seeking students in good standing and visiting from another four-year college or university, 2) have already earned a degree, or 3) are participants in special SMU initiatives such as concurrent or summer enrollment opportunities for college and high school students. Visiting students are admitted through the Division of Enrollment Services based on their likelihood to be successful in and benefit from SMU coursework as evidenced from their academic, behavioral and extracurricular history. They are eligible to register – on a space available basis – in classes for which they have satisfied SMU's prerequisites. Visiting students must maintain a cumulative grade point average of 2.000 or better in order to continue their studies at SMU. Failure to maintain the appropriate GPA standard may result in removal from the program. Admission as a visiting student does not qualify a student for admission to a degree program at SMU. Applications for visiting students are found at www.smu.edu/visitingstudent or may be obtained by emailing visitingstudent@smu.edu; phone 214-768-3417.

Visiting students from international colleges and universities whose entire curriculum is not taught in English are required to submit a test score from an internationally recognized English language test as explained under Required Testing in the Admission section of the catalog.

Readmission of Students

If a student in good standing withdraws from SMU for one term, the student's file remains active and the student is able to register as though in continuous enrollment at the University (re-entry). Students who left on probation will return on probation. All holds must be cleared prior to enrollment. Re-entry students are responsible for meeting all financial aid, housing and advising deadlines.

After nonattendance for two or more regular (fall, spring) terms, students who formerly attended SMU, including those who have completed a degree, are required to submit an application for reinstatement or reactivation through the Division of Enrollment Services, Undergraduate Admission. The application for admission is available at www.smu.edu/admission ("Apply" tab). Any student who has been suspended is also required to apply for reinstatement. Students who have been suspended are required to attach to their reinstatement application a statement indicating the reasons why they now are prepared to return to SMU. Although the Division of Enrollment Services facilitates the application process, an academic dean or the Committee on Academic Appeals determines reinstatement.

A student who has already earned an undergraduate degree at SMU and is seeking an additional undergraduate degree must apply for reactivation if the student has not attended SMU for two or more regular (fall, spring) terms.

Returning students are strongly advised to apply for reactivation or reinstatement at least 60 days prior to the start of the term of re-entry. Returning students should note that separate applications exist for financial aid and residence

halls and that they should contact these offices as early as possible. The deadline for filing this application and supporting materials for domestic students is one month prior to the first day of classes of the term of re-entry. International applicants must apply at least one month prior to the term of re-entry; however, they are encouraged to apply at least 90 days in advance in order to facilitate the immigration process. In addition, the availability of academic advising and courses may be limited immediately prior to and at the beginning of the term.

All students who return to SMU after any period of nonenrollment must forward official transcripts from each college or university attended since last enrolled at SMU. If the last term of enrollment at SMU was prior to fall 2000, official transcripts from each college or university attended prior to SMU also must be forwarded to the Division of Enrollment Services.

Students should be aware of specific policies regarding transfer courses taken after matriculation to SMU (see Transfer Courses from Other Institutions in the Enrollment and Academic Records section of this catalog). In addition, each college within SMU has specific policies regarding reinstatement, reactivation, transfer credit and statute of limitations, so students should refer to their school's section of this catalog for that information.

Academic Forgiveness

SMU's academic forgiveness policy permits a student to have academic work taken 10 or more years prior to the term of admission or readmission forgiven. Forgiven hours will not be included in the GPA nor used for actions such as the determination of admission, academic probation, suspension, honors, scholarships and graduation. Students should see the Enrollment and Academic Records section in this catalog for details of this policy. The academic forgiveness application is available through the Division of Enrollment Services.

Final Matriculation to the University

Final matriculation to SMU is contingent upon the student maintaining the same academic and behavioral record on which the University based its offer of admission. In addition to the nonrefundable deposit (and housing application and deposit for those seeking on-campus housing), the following items are required for final matriculation to the University:

Official Final Transcript. All new students must supply a final, official transcript from the institution(s) previously attended. In addition to final grades and degrees awarded, the transcript must bear an official seal of the school and signature of its certifying official.

Official Test Scores*. Students entering SMU as first-year students must have official ACT or SAT scores on file that match those on which the University based its offer of admission, if such scores were a requirement of their admission application. Official scores are those that come directly from the testing agency or appear on the student's high school transcript that bears an official seal of the school and signature of its certifying official. If the student submitted such scores as part of the application process, there is no need to submit them again.

**Temporary Testing Policy during COVID-19 pandemic: In consideration of the limited opportunities for high school students to take the SAT and ACT during the COVID-19 pandemic, SMU has extended their temporary test optional policy for Fall 2022 and Spring 2023 in undergraduate programs.*

Statement of Good Disciplinary Standing. All incoming transfer students must supply a Statement of Good Disciplinary Standing from all prior colleges and universities attended.

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 Memorial Health Center before registration. To comply with SMU policy, all students must also submit to the health center their 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. Texas state law requires that all new students under the age of 22 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.

Students are encouraged to check their my.SMU account for immunization status. Immunizations are available at the health center. Health history forms are available on the health center's website.

Health Insurance. To ensure that students have appropriate health care coverage, SMU requires all domestic students taking nine or more credit hours, both undergraduate and graduate, 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 granted by the SMU's Dr. Bob Smith Health Center.

International Student Compliance. Students who will need an SMU I20 or DS2019 immigration document student visa (F/J visa) in order to apply for a student visa must complete the International Student Compliance online course in order to enroll for classes.

Tuition, Fees and Financial Aid

Tuition, Fees and Living Expenses

The *Financial Information Bulletin* 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.

Students must ensure that payment for the full amount of charges is posted to their account by the payment due date showing on their bill. The due dates are also published on the Bursar website.

Billing notifications are sent to the student's SMU email address and to the designated authorized payer(s) email address when a bill is generated. The billing notification will provide instructions on how to view the bill online through SMUpay. If notification is not received two weeks prior to the due date, the student and/or designated authorized payer(s) should contact the Office of the University Bursar.

Payments made in person or mailed must be received by the Office of the University Bursar, located on the first floor of the Laura Lee Blanton Student Services Building, no later than 4 p.m. Central Time on the payment due date. Payments made online via electronic check or credit card must be posted no later than 11:59 p.m. Central Time on the payment due date. Students and/or those paying on behalf of students who pay online automatically receive an electronic confirmation of payment; students and/or designated authorized payer(s) paying through other methods can also verify receipt of payment online.

Students enrolling after the payment due date must pay at the time of enrollment. Students whose accounts are not cleared by the payment due date or at the time of enrollment are subject to a late payment fee of $50 for balances between $250 and $999.99, and $150 for balances between $1,000 and $5,000. Balances more than $5,000 are charged 3 percent of the outstanding balance, not to exceed $750. Also, after the monthly payment due date has passed, a 1.5 percent past due fee will be assessed on the unpaid student and/or miscellaneous account each month until the balance is paid. The enrollment of students whose accounts remain unpaid after the payment due date may be canceled at the discretion of the University. Students are individually responsible for their financial obligations to the University.

All refunds except federal parent PLUS loans, prepayment accounts, the SMU Monthly Payment Plan and international wires will be made payable to the student. A credit card payment will only be refunded to the student if federal student loans have been applied to their account. International wires will be refunded by wire to the originating wire account less a $35 wire-processing fee. The parent PLUS loan borrower can request the refund to be processed to the student by submitting a Parent PLUS Release form, located on the Bursar website. 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. Any outstanding debts to the University that include Title IV funds must have an Authorization to Credit Account (ACA) form and/or an Authorization to Credit Account Parent (ACAP) form on file in order to transfer funds to cover current award year debts. Students need to sign the ACA form electronically; both the federal parent PLUS borrower and the student need to sign the ACAP form electronically.

Any outstanding debts to the University that do not include Title IV funds will be deducted from the credit balance prior to issuing a refund. All other debts should be paid directly by the student.

A student whose University account is overdue or who in any other manner has an unpaid financial obligation to the University may 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. The student may be responsible for paying the collection agency fee, which may be based on a percentage at a maximum of 50 percent, of the student's delinquent account, together with all costs and expenses, including reasonable attorney's fees, necessary for the collection of the delinquent account. Matriculation in the University constitutes an agreement by the student to comply with all University rules, regulations and policies.

Applications for financial assistance should be submitted well in advance of registration in accordance with recommended filing dates set forth by the Division of Enrollment Services, Office of Financial Aid. Applications received after the recommended deadline can expect a delay in application processing time due to the increased volume. This will ultimately delay disbursement of financial aid to the student account. Students and families are expected to clear all billed charged by the published billing due dates regardless of the status of their financial aid application. Any funds that disburse to the student account after the payment due date has passed, will be applied to any outstanding charges first. Remaining financial aid funds will be refunded to the student.

During the registration process, students will be prompted to read and agree to the Student Rights and Responsibilities, which provides information regarding financial rights and obligations, SMU's Honor Code, the Code of Conduct, and the student appeals and complaints process.

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

Tuition Refunds for Withdrawal from the University

No refunds of tuition or fees will be considered without an official withdrawal. Policies for official withdrawal, including medical and mandatory administrative withdrawal, are found under Withdrawal from the University in the Enrollment and Academic Records section of this catalog.

Medical withdrawals and mandatory administrative withdrawals allow a prorated refund of tuition and fees and must be initiated through the academic adviser or academic Dean's office.

Reduction of tuition and fees, when applicable, is determined by the effective date of the withdrawal and is based on the schedule listed in the *Financial Information Bulletin* and the SMU Bursar website.

Financial aid implications of withdrawing from the University

Federal regulations require schools to adjust financial aid when a student officially withdraws from the University before completing 60% of the term. Financial aid is reduced to a pro-rated amount based on the amount of time the student was enrolled in classes in that specific term, thus "earning" financial aid proportionate to the amount of time enrolled. The "unearned" portion of aid will be returned to the funding source. Students completing 60% or more of a term are considered to have earned 100% of their financial aid for that term. This federally mandated calculation is completely independent of university's refund policies for withdrawals and may require a reduction in financial aid even if there is no reduction in tuition charges. The end result could create a substantial student account balance after the withdrawal is processed. For this reason, students are strongly encouraged to contact their financial aid adviser, before initiating a withdrawal, to discuss the financial implications of withdrawing. For additional information on the University's tuition refund policies, see the SMU *Financial Information Bulletin* or the University Bursar's website. Information on the implications of withdrawing on your financial aid can be found on the Office of Financial Aid website.

Payment Plan Options

SMU Monthly Payment Plan

SMU offers several payment plan options to assist students and families. Refer to the Bursar's website for detailed payment plan information: www.smu.edu/paymentplans.

Fall and Spring Term payment plans are available in 6-month and 5-month formats. The summer payment plan is three months. Payment plan options are not available for short terms including JanTerm, May Term, August Term and Winter Term.

SMU Prepayment Plan

The SMU Prepayment Plan (a single payment up front for all terms) allows families to avoid the effects of tuition and fee increases by paying for two, three or four years in one single payment at the current rate of tuition and fees for an undergraduate full-time (12-18 credit hours) student. It covers Fall and Spring terms only. Questions should

be addressed to the Division of Enrollment Services, Southern Methodist University, PO Box 750181, Dallas TX 75275-0181; phone 214-768-3417.

Student Financial Aid

Scholarships, Grants and Other Aid

SMU strives to provide financial assistance to any student who has been admitted to the University and demonstrates financial need as determined by the Free Application for Federal Student Aid (FAFSA) and CSS/Profile.

Approximately three out of every four students receive some form of federal, state or SMU funded financial assistance. SMU has several, generous, merit-based scholarship and need-based grant programs. Students seeking federal and state financial aid must file the Free Application for Federal Student Aid at www.fafsa.gov. Texas residents who do not qualify to file the FAFSA may be eligible for assistance through the State of Texas by filing the Texas Application for State Financial Aid (TASFA).

SMU strives to provide financial assistance to any student who is offered admission and who has been determined to have need for such assistance by the Division of Enrollment Services, Office of Financial Aid.

Certain special SMU scholarship and grant programs are available to students who meet the following specific criteria:

- Entering first-year, transfer and continuing students with high academic accomplishments or achievement in the arts.
- National Merit finalists and International Baccalaureate Diploma recipients.
- Dependent children and spouses of ordained United Methodist ministers engaged in full-time, church-related vocations. (Additional application required.)
- Texas residents.

Primary consideration for merit scholarships and need-based financial aid will be given to the following:

1. *Entering first-year students who*
    a. Complete the admission application, with all supporting materials, by January 15.
    b. File the Free Application for Federal Student Aid (www.fafsa.gov) and the CSS/PROFILE (student.collegeboard.org/profile) by November 1 for Early Decision/Early Action, by February 15 for Regular Admission. (The FAFSA is required for federal need-based aid consideration; the FAFSA and CSS/PROFILE are required for consideration for University-funded need-based aid.) SMU's Title IV school code is 003613; the CSS/PROFILE school code is 6660.
    c. Complete the online SMU Application for Scholarships. Instructions to complete the online application will be emailed to the student after submission of the admission application.
2. *Transfer students who*
    a. Complete the admission application, with all supporting materials, by June 1.
    b. File the FAFSA (www.fafsa.gov) and the CSS/PROFILE (student.collegeboard.org/profile) by June 1. (The FAFSA is required for consideration for federal need-based aid; the FAFSA and CSS/PROFILE are required for consideration for University-funded need-based aid).
3. *Continuing students who*
    a. File the FAFSA (www.fafsa.gov) or the FAFSA Renewal and the CSS/PROFILE (student.collegeboard.org/profile) no later than April 15 to receive priority processing. Applications received after April 15 will be processed on a first come, first served basis.

Additional information is available from Division of Enrollment Services, Southern Methodist University, PO Box 750181, Dallas TX 75275-0181; 214-768-3417; enrol_serv@smu.edu; www.smu.edu/financialaid.

Satisfactory Academic Progress Requirements for Federal, State and Institutional Financial Aid Eligibility

In accordance with the Higher Education Act of 1965 and federal policy, SMU maintains requirements of Satisfactory Academic Progress for students receiving federal financial aid. The standards below are also used for

state and institutional funds. Students who are enrolling for a fifth year of undergraduate studies and are seeking institutional financial assistance must provide a written appeal to the financial aid office and, as appropriate, must file financial aid applications (FAFSA and CSS/PROFILE) as well as obtain degree completion plans from their academic adviser.

Satisfactory academic progress is measured annually, at the end of spring term. Undergraduate students must meet three measures:

1. **Qualitative Measure:** At the end of spring term, a student must be making satisfactory academic progress measured by the student's cumulative GPA of 2.000 or better, which is the standard for graduation at SMU.
2. **Quantitative Measure:** At the end of spring term, a student must be making satisfactory academic progress measured by determining if the student has passed 75 percent of the classes he/she attempted during the academic year.
3. **Program Time and Term Limits:** Attempted hours cannot exceed the number of hours required to earn the degree by more than 150%. The same measurement applies to the number of terms attended. The number of terms attended cannot exceed the number of terms required to earn a degree by more than 150%. Students exceeding 150% are not eligible to receive federal, state or institutional aid.

A student that fails one or more of these measurements does not meet the minimum requirements for satisfactory academic progress and is, therefore, ineligible for financial aid funding. Eligibility may be re-established by increasing academic performance back to a satisfactory level or by submitting an appeal to the Office of Financial Aid.

Financial Aid Appeals

Financial Aid Appeal Due to Academic Progress: A student who does not meet the renewal requirements for scholarships, grants, or other aid may appeal to regain eligibility on a temporary or probationary basis by submitting an appeal to the Office of Financial Aid for review. To initiate an appeal, the student should contact their Financial Aid Adviser for more information or read more online at https://www.smu.edu/EnrollmentServices/financialaid/TypesOfAid/SatisfactoryAcademicProgressRequirements.

Financial Aid Appeal Due to Special Circumstances: A student who faces unexpected circumstances that impact their overall cost of attendance or their ability to cover those costs may submit an appeal. The Office of Financial Aid reviews each student's circumstances on a case-by-case basis in accordance with guidelines provided by the U.S. Department of Education. To initiate such an appeal, the student should contact their Financial Aid Adviser or read more online at https://www.smu.edu/EnrollmentServices/financialaid/Process/Appeals--Due-to-Special-Circumstances.

Veterans Certification

The University Registrar's Office certifies veterans each term for their benefits under federal programs. More information regarding the certification process is available from the University Registrar's Office at www.smu.edu/EnrollmentServices/Veterans and under Veterans in the Enrollment and Academic Records section of this catalog.

Student Life and Housing

The Division of Student Affairs

The Division of Student Affairs (www.smu.edu/studentaffairs) creates and supports a robust student experience and forges strategic partnerships to best serve the entire SMU community. As educators and scholar-practitioners, we create purposeful learning and leadership opportunities for students to clarify and develop their knowledge, values, skills, and identities – challenging each to become a world changer. The Division of Student Affairs is comprised of five different organizational units that each provide unique educational and supportive resources for students during their time at SMU: Student Wellbeing and Support, Student Engagement and Success, Residence Life and Student Housing, Religious Life, and the Hegi Family Career Development Center.

Student Wellbeing and Support

Health Services

www.smu.edu/healthcenter

The Dr. Bob Smith Health Center provides SMU students with campus access to quality, comprehensive and student-centered medical care, mental health services, and outreach programs designed to promote their health and wellbeing. The new 33,000 square foot state-of-the-art clinic facility is centrally located on campus at 6211 Bishop Boulevard. The Health Center is certified by the Accreditation Association for Ambulatory Health Care (AAAHC) for meeting rigorous nationally recognized standards and committing to delivering the highest quality of care.

Medical Services. The Dr. Bob Smith Health Center provides a wide range of health services allowing students to receive primary care on campus. Services available include the treatment of acute illnesses, care of injuries, minor medical procedures, physical exams, STD testing, vaccinations, allergy injections, and limited specialty services. Additional ancillary services include a clinical laboratory, an on-site pharmacy, X-ray imaging and diagnostic services, and a part-time sports medicine clinic. For appointments and health information, students may call 214-768-2141 or visit www.smu.edu/healthcenter.

Acute/After Hours Care. Students should call 911 for immediate response to life-threatening injuries or illnesses. For other urgent concerns after clinic hours, students should seek a local hospital or urgent care center. A listing of several hospital emergency rooms and after-hours urgent care facilities is provided for general reference on the Health Center website (www.smu.edu/healthcenter).

Costs. The Health Services Fee, which is included in general student fees, covers routine medical visits and counseling appointments at the Health Center. Charges are assessed separately for lab services, x-rays, immunizations, medical supplies, pharmacy and specialty care. Claims are filed for students participating in the SMU Student Health Insurance Plan. Students with other insurance plans may request an itemized receipt in order to submit a claim for insurance reimbursement. The Pharmacy files claims for most insurance plans.

Mandatory Health Insurance Policy. SMU students are required to maintain insurance coverage as a condition of their enrollment. The University offers the SMU Student Health Insurance Plan (SHIP), which is administered by the Health Center's Student Insurance Office. The plan provides coverage at a reasonable cost for most on- and off-campus health care. Information is available at www.smu.edu/healthinsurance.
Domestic students taking nine or more credit hours and international students taking one credit hour or more are automatically enrolled in the Student Health Insurance Plan (SHIP) each semester unless they expressly waive coverage in their my.SMU account. Information about the waiver deadline is available online at smu.edu/healthinsurance. Domestic students taking between one and eight credit hours are eligible to enroll in the Student Health Insurance Plan on a voluntary basis.

Pharmacy. A full service pharmacy is conveniently located in the Dr. Bob Smith Health Center to meet students' prescription needs from 8:30 a.m. to 5:00 p.m., Monday through Friday. The pharmacy is in network with most insurance plans. Prescriptions and refills may be transmitted directly to the pharmacy from the student's physician.

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 Dr. Bob Smith Health Center

before registration. (Health history forms are available on the Health Center's website at www.smu.edu/healthcenter).All students must also submit - to the Health Center - immunization records that provide proof of two doses of the vaccine 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.

Texas state law requires all new students entering an institution of higher education under the age of 22 to provide proof of immunization for bacterial meningitis. The meningitis vaccine or a booster dose must have been received during the five-year period prior to enrollment and not less than ten days before the start of classes. 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. More information is found under Final Matriculation to the University in the Admission to the University section of this catalog.

All required immunizations may be obtained at the Health Center.

Class Absence Due to Illness. The Health Center does not issue excuses from classes for illness. Please refer to the Health Center website (www.smu.edu/healthcenter) for the Class Excuse Policy.

Confidentiality and Privacy. Confidentiality and privacy of student health information is of paramount importance at the Dr. Bob Smith Health Center. The Health Center follows all applicable state and federal laws related to the disclosure of medical and mental health information, and applies to the highest professional standards of care and privacy. All student-patient health service records are confidential. No information about a student can be released to any third party without the student's written permission.

Release of Medical Information. Patient health information and medical records are released only with a written release by the student. Students may sign a release allowing the Health Center to provide specific medical information with their parents, significant others or health care representatives.

Health Education and Promotion. The Health Center's Office for Community Health Promotion serves as a resource to enhance the well-being of SMU students in support of their learning and success. Health information is presented though engaging programs and services to help students make informed and healthy choices. The Health Center works with students to promote activities that create a healthy environment for the SMU community.

Counseling Services. The Health Center provides crisis intervention, individual and group therapy, psychiatric evaluation and counseling referrals for SMU students. Use of all services is voluntary and strictly confidential. There is no charge to students who have paid the University health fee. Students can seek confidential help for concerns such as anxiety, depression, relationships, career/life planning, sexual identity, eating/body image and sexual assault/sexual harassment. Alcohol and drug prevention is a free and confidential source of help and information to the SMU community, covering issues related to substance abuse and addiction. Any laboratory tests or pharmaceuticals ordered will be charged to the student. For more information regarding scheduling appointments, students should call 214-768-2277 or visit www.smu.edu/counseling.

Testing Services. Testing Services offers fee-based testing to the Dallas-area community. These services include on-campus administration of national testing programs such as the LSAT, MPRE, GRE and others. Other testing offered includes credit by exam (CLEP), and correspondence examinations for local distance learners enrolled in other universities. For additional information, students should visit www.smu.edu/testingprogram or call the center at 214-768-2269.

Campus Recreation

www.smu.edu/recsports

The Dedman Center for Lifetime Sports provides aerobic studios, an indoor running track, basketball courts, volleyball courts (indoor and outdoor), racquetball courts, a climbing wall, a bouldering wall, a 25-yard recreational pool with five lanes, 15,000 square feet of fitness and weight equipment and a Starbucks in the lobby area. These facilities are open to SMU students, faculty, staff and paying members.

Facilities/Operations. The center is a 170,000 square foot facility designed for recreational sports, wellness, programs and the traditions and spirit of SMU.

Aquatics. SMU Aquatics features a five-lane, indoor recreational pool and an outdoor, zero-depth entry fountain pool known as "The Falls." Students have opportunities to participate year-round in recreational swimming, sunbathing and water sports such as water basketball, volleyball and polo. Classes offered include water fitness, adult and child swimming lessons, children's group lessons, and American Red Cross lifeguard training.

Programs. A variety of services and programs are available, including club sports, fitness classes, intramural sports and the Outdoor Adventure program.

Club Sports. Club sports offer an opportunity for students interested in concentrated training and participation in a sport. These recognized student organizations offer competition with other university/college club teams in baseball, cycling, ice hockey, men's and women's lacrosse, polo, rugby, men's and women's soccer, triathlon, ultimate Frisbee, volleyball, wakeboarding and water polo.

Fitness. SMU Fitness offers group exercise classes and personal training sessions. Group X exercise classes are offered throughout the day to accommodate a variety of schedules. Different types of cardio, strength and flexibility classes are available. Experienced and knowledgeable personal trainers offer sessions to train members of the University community, either one-on-one or in groups, to meet their personal fitness goals. All SMU Fitness programs have a fee for participation.

Intramural Sports. Many opportunities for team and individual competition are available through intramural sports such as golf, racquetball, tennis, and dodgeball. The five major sports are flag football, volleyball, basketball, soccer and softball. Leagues provide year-round opportunities to participate in a wide variety of sports and activities. Additional leadership opportunities are available for those interested in officiating or supervising various activities.

Outdoor Adventure. SMU Outdoor Adventures (OA) is the campus source for outdoor recreation and adventure, offering fun and challenging recreational adventure activities, community-building programs, and student leadership and personal growth opportunities. Students can sign up for SMU OA trips offering traditional and non-traditional outdoor adventure pursuits such as backpacking, rock climbing, caving and canoeing. SMU OA also manages the SMU Climbing Center, the indoor climbing and bouldering facility and the Portable Challenge and Team Development course.

Spirit/Traditions. The Recreational Sports Department houses the spirit and traditions of SMU including the Cheer Squad, Mustang Band, Peruna, Pom Squad and the Rotunda Yearbook.

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

Rotunda Yearbook. For over 100 years, the Rotunda Yearbook has chronicled the history of Southern Methodist University. Named in December 1915 after the architecture of Dallas Hall, the Executive Council of the Student Association voted for the annual's name after seven different students suggested it. From its beautiful art to captivating themes, the Rotunda has evolved with the times, earning national awards and recognition from the Associated Collegiate Press (ACP) and Columbia Scholastic Press Association (CSPA).

Spirit Squads. Members are full-time students who dedicate their time, energy and athleticism to support Mustang Athletics.

The Cheerleading Squad is a highly competitive team consisting of 20 to 30 young men and women. Twenty of the team's members compete at NCA College Nationals held in Daytona Beach, Florida where the squad placed first in 2016, 2017 and once again in 2018.

The Pom Squad is well known for their energetic performances and their ability to entertain a crowd. The dancing style of the team includes jazz, pom and hip-hop.

Peruna IX (2011-PRESENT) is the beloved mascot of the university and is accompanied by Peruna handlers that lead him across the field during football games. The Human Peruna Mascot is the costumed hero that represents SMU, and is a traditional accessory to Peruna IX.

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, understand the regulations defining it and 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 their own interests and their integrity as individuals would suffer if they condone dishonesty in others.

The Honor System

All SMU undergraduate students and graduate students with the exception of those enrolled in the Schools of Law, Theology, Business, or Education are subject to the Honor Code and as such are required to demonstrate an understanding of and to uphold the Honor Code. Honor codes for graduate students enrolled in the Cox School of Business, Dedman School of Law, Perkins School of Theology and Simmons School of Education and Human Development are explained in their graduate catalogs.

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.

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. The Office of Student Conduct & Community Standards, (www.smu.edu/studentconduct), promotes community, scholarship and civility by holding students accountable to the Student Code of Conduct and the Honor Code.

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.

Due respect for the entire University community, faculty, staff and one's fellow students is always expected. The University expects all students to be responsible citizens and to abide by all federal, state and local laws. The University Code of Conduct applies to students both on and off campus. It is the University's expectation that students will avoid behaviors such as, but not limited to, the misuse of drugs and alcohol, dishonesty, gambling, hazing, or behavior that endangers or threatens to endanger the health and safety of any person.

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.

Conduct Review Process

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. The purpose of the conduct review process is to encourage personal responsibility.

Depending on the degree of misconduct, a student may be subject to sanctions ranging from an informal warning to expulsion from the University. In addition, a student may be assigned educational sanctions designed to promote personal growth and development. Should a student be asked to leave the University, they should do so in an expeditious and peaceful manner. The student should remain off campus until they receive written permission from the Office of Student Conduct & Community Standards to return to campus. In the event of such separation, a student is still responsible for University financial obligations.

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 otherwise determined by the Dean of Students, the Vice President for Student Affairs, or their designee. All actions related to the conduct review process 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, which is available online at www.smu.edu/studenthandbook.

Student Engagement and Success

Department of Student Development

Office of the Student Experience

The Office of the Student Experience designs a comprehensive student experience supporting students and their families from orientation to graduation. Using a leadership framework, all students are guided through collegiate transitions. With recognition of the unique needs of veterans, graduate, transfer, and international students, the office advocates for and provides support to these special populations.

Orientation

Through orientation, students connect to the SMU academy, spirit, people, campus, and community. This connection to SMU occurs through Virtual Orientation throughout the summer and Stampede in August. Virtual Orientation includes completing online orientation modules, meeting virtually with an academic advisor prior to completing course registration, and connecting virtually with incoming students and student leaders. Stampede, an extended orientation experience including everything from Move-In to Convocation, takes place each August and is open to all new Mustangs. Learn more at www.smu.edu/newstudent.

Leadership

The leadership programs available to students include the Emerging Leaders First-Year Leadership Development Program, the Crain Leadership Summit, and the Lonestar LeaderShape Institute. The Office of the Student Experience also supports student leadership development through the Caswell Leadership Program, for a group of selected students to develop projects focused on organizational leadership, faith-based leadership, community-based leadership, environmental leadership, fraternity and sorority leadership or culturally competent leadership. Learn more at www.smu.edu/leadershipprograms.

Parent and Family Programs

Parents and families are supported through the Office of the Student Experience with a focus on assisting families to assist their students. Our office supports the SMU Mothers' and Dads' clubs, welcomes and supports new students and families during orientation, and supports family weekend. Learn more at www.smu.edu/parents.

Special Population Support

The Office of the Student Experience is committed to supporting all SMU students in their transitions into and through SMU. Additional support is coordinated for special student populations who may have unique factors that impact their transitions including Veteran, Transfer, International, and Graduate students.

Women and LGBT Center

www.smu.edu/womenandlgbtcenter

The Women & LGBT Center works to increase awareness and understanding of gender, sexuality, and women's issues on campus through social, cultural and academic programming and outreach. We provide empowering spaces for students to develop as leaders through purposeful learning, educational, and advocacy opportunities. We also advise, support, and develop student organizations focused on gender, sexuality, and women's issues. Some of the organizations we advise include the Feminist Equality Movement, Women in Science and Engineering, and Spectrum: the lesbian, gay, bisexual, transgender and ally organization. Also housed in the center is the SMU Women's Symposium (www.smu.edu/womsym), which is part of the Education of Women for Social and Political Leadership series, established in 1966.

Office of Social Change and Intercultural Engagement

The Office of Social Change and Intercultural Engagement exists to connect students with opportunities to engage with and learn from the SMU campus, Dallas community, and beyond. The office prioritizes advocacy and awareness through immersive community engagement experiences and social justice education. There are two major functional areas of the office: community engagement and intercultural engagement.

The community engagement side of the office has signature service programs including The Big Event, Mustang Heroes, and Alternative Breaks—which provide students the opportunity to participate in immersive service experiences in Dallas and throughout the United States. The office also provides consulting services to individuals, classes, and offices to help connect them to meaningful and educational community engagement opportunities.

In addition, the office sponsors intercultural engagement and social justice education programs to provide opportunities for the exchange of ideas and experiences that enhance student perspectives, and offers various leadership opportunities through culturally based student organizations, student coordinator positions, and the CONNECT Mentoring Program.

For more information about our programs, please visit www.smu.edu/socialchange.

Department of Student Involvement

connect.smu.edu
www.smu.edu/studentinvolvement

The mission of Student Involvement is to foster experiences and create spaces encouraging students to discover their interests and find a sense of belonging through involvement. Research shows that students who get involved, regardless of the type of activity, tend to be more successful during their college experience. Student Involvement supports more than 200 opportunities for SMU students through academic and professional associations, campus programming boards, community service coalitions, fraternities and sororities, governing boards, honor societies, multicultural organizations, political clubs, club sports, religious organizations, and special interest groups. Professional staff are available to answer student's questions about getting involved and student organization operations.

Additional information is available online, a list of student organizations organized by type or interest, membership requirements, contact information and event calendars. Student Involvement can also assist students in forming a new organization. To learn more visit connect.smu.edu.

Eligibility Requirements. Students who hold office in a student organization or represent the University as a member of a sponsored campus group (Mustang Band, Alternative Breaks, etc.) must be matriculated in a University degree-granting program, maintain a minimum 2.0 GPA, and may not be on academic probation.

Student Government

Through SMU's system of representative governance, students participate with faculty and administration in the University's decision-making process. The primary voice of students in this process is the student-elected Student Senate comprised of senators, committee chairs, general members, and student body officers.

Fraternity and Sorority Life

www.smu.edu/fsl

Fraternities and sororities exist to develop an individual's potential through leadership opportunities and group effort. These groups are a social network for students at SMU. Fraternities and sororities were among the first organizations at SMU and are one of SMU's longest standing traditions. The governing bodies for these groups are the Interfraternity Council, the Multicultural Greek Council, the National Pan-Hellenic Council and the Panhellenic Council. Students must meet the requirements as indicated in the SMU Student Handbook (Policies Pertaining to Social Fraternities and Sororities, section 1.02(b), and/or other council and fraternity and sorority life requirements) to be eligible to join a fraternity or sorority. More details on fraternity and sorority programming and recruitment are available from Student Involvement.

Hughes-Trigg Student Center

www.smu.edu/htrigg

The Hughes-Trigg Student Center supports the University's mission by serving as the hub of student life and activities. The Student Center enhances the student experience by providing services, conveniences, amenities, and resources to facilitate programming. The Student Involvement staff strives to provide a safe and community-focused environment to meet the diverse needs of all individuals. Our space offerings include a 6,400 square-foot ballroom, a tiered, amphitheater-style forum classroom, a 470-person capacity auditorium, a convenience store, a food court with a multifunction dining space, a post office, office and meeting space for student organizations, several lounging and quiet areas for studying, and six meeting rooms.

Residence Life and Student Housing

www.smu.edu/housing

Mission: Residence Life and Student Housing fosters the foundational SMU experience where each student belongs, learns, and connects through their residential community. We make campus home.

Residence Life and Student Housing (RLSH) offers four primary types of campus housing options to SMU students: our signature Residential Commons, service house, fraternity housing, and upper division and graduate student housing.

Living and Learning in the Residential Commons

At SMU, we are transforming the residential life model for students through our Residential Commons program, which integrates the academic, residential and social experience. Living in one of the 11 on-campus Residential Commons during your first two years at SMU, you'll find it's easier to make friends and transition smoothly to university life in a supportive environment. Living and interacting with students from across the United States and the world enriches you and prepares you to be a world changer in today's global society.

Community Expectations and Standards

SMU works collaboratively with students to create and maintain an atmosphere that promotes academic success, personal growth and social awareness. Safety and security are shared responsibilities among residents and the University. Strong communities require participating and cooperation of every resident. As a member of your community, you assume responsibility for what you do, including showing courtesy to others and respect for property. Our policies and Community Standards, given to all residents at check-in, outline reasonable expectations for conduct. We trust that all residents will make choices that promote a strong community and uphold these standards. Those who do not will be held accountable for their actions.

Learning in Community

Student interactions and learning experiences outside of class are an important part of the whole college experience, to this end, each commons has a team of faculty and staff who work together to create a community with an academic focus and social opportunities. The team includes these members:

- **Faculty in Residence:** Each Residential Commons has a Faculty in Residence who is a well-established SMU professor who lives in his or her Residential Commons and serves as the academic leader in the community. FiRs help elevate the intellectual environment by hosting planned events and participating in impromptu discussions. A true member of the community, the FiR lives and works in his or her commons.
- **Residential Community Director:** The RCD is a full-time professional with a master's degree who is experienced in residence hall living and student life issues. Your RCD is responsible for the overall management of a Residential Commons, including supervising the Resident Assistant Staff, coordinating programs, supervising student conduct and advising the Community Council.
- **Resident Assistants:** RAs are students who work to foster a sense of community. The RA on your floor is a valuable resource for help in problem solving, conflict mediation and your transition to the University. They coordinate social and educational programs, facilitate hall and campus involvement and assist with the overall management of the residence.

Leadership Opportunities

Each residential community has a Community Council to help coordinate activities. Most Community Councils have committees that work with the Faculty in Residence and Residential Community Director to help build a strong sense of belonging within the commons. By serving on a committee, you can help plan and enjoy a variety of group activities, such as the Res Commons Olympics, Commons dinners and cultural events.

The Housing Unification Board (or HUB) is the governing body of all residential communities and is open to all students affiliated with a Residential Commons or upper division housing.

Each student living on campus will:

- Experience opportunities to explore their personal values, beliefs, and aspirations. (Global Citizenship - Personal Congruence)

- Appropriately advocate for themselves and others. (Social Responsibility - Amplified Capacity - Holistic Wellness)
- Develop cultural intelligence and an appreciation of diversity. (Global Citizenship - Amplified Capacity - Personal Congruence)
- Feel a sense of belonging to and support from their residential community. (Holistic Wellness - Social Responsibility - Personal Congruence)
- Positively contribute to and understand their impact on community. (Courageous Leadership - Global Citizenship - Social Responsibility - Amplified Capacity)
- Develop leadership through formal and informal roles. (Courageous Leadership - Personal Congruence)
- Engage with faculty outside of the classroom. (Holistic Wellness - Amplified Capacity)

The above constituent outcomes correspond with at least two Division of Student Affairs Learning Domains. The Learning Domains are listed below each outcome.

Hegi Family Career Development Center

www.smu.edu/career

The Hegi Family Career Development Center at SMU is dedicated to serving the needs of SMU students and alumni and assisting employers in reaching qualified candidates from SMU. The Career Development Center staff guides and encourages students and alumni in the development of skills necessary for lifelong career management and offers opportunities for employers to recruit students through campus events and online resources. At Hegi, the staff cares about helping students develop into well-rounded individuals, and is dedicated to values of consistency, authenticity and commitment to excellence.

Career Drop-in Hours. The Career Center offers 15-minute drop-in sessions on a first-come, first-served, basis. In these sessions, students can discuss career options or get help editing a resume. Additional information is available on our website at www.smu.edu/career.

Career Counseling Appointments. The Career Center also provides opportunities for career counseling appointments with a staff member. These longer sessions can help students navigate more complex issues, including major exploration, career exploration, professional skill building, and more.

Peer Mentors. Peer Mentors are highly trained student leaders who help fellow students navigate the career development process, including assisting with drop-ins, editing cover letters and resumes, and representing Hegi at campus events.

Career Development Ambassadors. CDA is a student organization designed to provide career development opportunities on the SMU Campus. CDAs organize events for the SMU community, which inspire engagement in the career development process, develop students' career tools, and provide networking opportunities.

Hegi Career Leaders. Hegi Career Leaders is an advanced professional development program for students who are interested in getting a jump start on their career journey. Students in this program have career development requirements to fulfill each semester. Hegi Career Leaders also have access to exclusive networking opportunities, special workshops, and additional resources that are available only to this group. Accepted students have the opportunity to complete up to 4 years of the program, but the program is completed in 1-year increments. Each year they complete will build on the previous ones, and focus on additional skills and career milestones. We recommend students begin their freshman year, so that they are as prepared as possible upon graduation! We work with students on topics such as choosing a major/minor, building their resume, researching industries and companies, writing cover letters, interviewing, networking, creating an elevator pitch, building their professional brand, job/internship searching, salary negotiation, graduate school applications, and more.

Board Fellows Program. Our SMU Board Fellows Program is a partnership between the Hegi Family Career Development Center and the Office of Social Change and Intercultural Engagement which places students as non-voting members on nonprofit boards. This career development and community engagement opportunity offers a unique experiential learning and career development opportunity, successfully promotes student learning and

intercultural engagement, and allows students to grow their professional and leadership skills while learning in a positive environment with seasoned professionals and involved community members.

Experiential Learning. Want to learn more about an industry, company or specific job? Experiential learning is the best way to do so. Below are some easy ways to get connected:

- **Lunch 'n Learns:** Meet an employer in an informal setting to learn about their career journey.
- **SMU Connection:** Connect and develop a relationship with an SMU alumnus/alumna who works in a career in which you are interested through a one day job shadow experience.
- **Employer Site Visits:** Shadow professionals and SMU alumni for the day and learn about their career path and what they do professionally through on-site corporate visits.
- **Informational Interviews:** Have a conversation with an alum and/or employer to build your network and learn about their education and career path.

Employer Events. Our Office cultivates meaningful relationships with organizations and employers who are invested in networking with dynamic, talented and skilled SMU students. Throughout the year, the Career Center hosts 2-4 Career and Internship Fairs, along with a host of Employer Industry Panels, Company Information Sessions and Industry Training and Development Workshops. These events offer students an opportunity to work with employers and alumni and to learn the skills necessary to be successful in the workplace.

Office of the Chaplain and Religious Life

www.smu.edu/chaplain

The Office of the Chaplain and Religious Life offers resources of pastoral care and theological reflection that nurture spiritual and vocational development as well as the moral and ethical vision and character of students, faculty and staff. Dr. Stephen W. Rankin is the chaplain and minister to the University community. Chaplain Rankin leads and preaches at weekly chapel service, an ecumenically Christian, all-University service of worship, each Wednesday at noon during the term. Students, faculty and staff are invited to participate through music, scripture readings or other expressions of worship. The Office of the Chaplain and Religious Life also plan other services, including the University Service of Memory, Ash Wednesday Service and memorial services as needed.

Presently, there are more than 34 religious life organizations. Alongside the Christian groups aligned with denominations, local Dallas-area congregations or national parachurch ministries, SMU also has an active Hillel chapter for Jewish students, a bustling Muslim Student Association and other faith groups of various traditions. A large number of undergraduate, graduate and professional students, as well as many of SMU's faculty, staff and administrators, participate in these religious communities.

Additionally, the Office of the Chaplain partners with faculty members across campus to direct the Faith and Learning Scholars, a cohort of students who seek to integrate their faith with their academic pursuits. Participants can qualify for the community engagement proficiency. Similarly, the Civil Rights Pilgrimage, founded in 2004, is an eight-day spring break journey through the South whereby students encounter shrines of freedom and meet heroes of the civil rights movement. This collaboration with Dedman College offers students a transformative opportunity while earning academic credit.

Chaplains are available for personal counseling and spiritual direction with students, faculty and staff during office hours. The Office of the Chaplain is located on the upper level of the Hughes-Trigg Student Center.

Residence Accommodations

The University prides itself on offering a full living and learning experience for its resident students. The mission of the Department of Residence Life and Student Housing is to foster the foundational SMU experience where every student belongs, learns, and connects through their residential community. To this end, RLSH seeks opportunities to promote an intellectual culture in SMU's residential communities that complements an already flourishing campus social culture. RLSH is responsible for residence halls, 11 Residential Commons and 10 SMU-owned Greek chapter houses. This responsibility includes making sure that facilities are well maintained and that students have opportunities to grow personally and excel academically.

Housing Policy for All Students

All incoming first-year undergraduate students are required to live on campus during their first two years at SMU. Exceptions may be granted on the basis of a financial, medical or personal hardship at the discretion of the dean of RLSH to those students from Dallas/Fort Worth who live with a parent or legal guardian in the primary residence of the parent or guardian. For housing purposes, the *two years* means the first two years of college. Incoming transfer students who are over the age of 16 and under the age of 20 are required to live on-campus for their first year at SMU. For 2020-2021, upperclass and graduate students are not required to live on campus but may apply on a space-available basis.

Applications for Residence

Applications for on-campus housing for new undergraduate students are accepted after a student has been admitted to the University and paid the University deposit to the Office of Undergraduate Admissions. After the deposit has been processed, new students receive an email with instructions for completing the online application and housing license agreement. The University deposit includes the matriculation fee, orientation fee and advance housing deposit. These fees are nonrefundable. Notification of assignment will be made by RLSH. The housing license agreement is for the full academic year (fall and spring terms). Room charges for the fall term will be billed and are payable in advance of the term for students who register before August 1, and room charges for the spring term will be billed and are payable in advance of that term for students who register before December 1. Students who register after these dates must pay at the time of registration. Room charges for the full academic year will be due and payable should a student move out at any time during the school year. Accommodations for shorter periods are available only by special arrangement with RLSH before acceptance of the housing license agreement. It is important that applicants become familiar with the license agreement, as it is a legally binding document.

Residence Halls and Apartments

Residential Commons at SMU

Most undergraduate residence halls at SMU are designated as Residential Commons. Entering students are assigned to a Residential Commons in a distributed manner so that each Commons is representational of the incoming class. Incoming students live in their RC for their first two years at SMU. All rooms are furnished with extra-long twin size beds, dressers, desks, chairs, and closets or wardrobes for clothes. Each student is expected to furnish a pillow, bed linens, bed covers, bed-spread, towels, mattress pad and study lamp.

Upper Division Halls

Several residential facilities are designated for upper division students (juniors and seniors, and sophomores on a space-available basis) and graduate students. Moore Hall and Daniel feature apartment-style accommodations for upper division students. Smith and Perkins are residence hall style accommodation for sophomores, transfers, juniors and seniors. The Service House is a small, upper division hall with a thematic focus of community service.

Special Housing Needs

Students having special housing needs because of a disability should contact the SMU Office of Disability Accommodations and Success Strategies in order to establish eligibility for accommodations. When applying for housing, students should also submit information to RLSH regarding a request for accommodations. DASS and RLSH will work together with the student on their specific situation to make necessary accommodations.

General Housing Information

In the Residential Commons, each room is equipped with in-room cable television service and Ethernet and wireless connections to the University's digital network and online systems. All residential facilities are air-conditioned, and rooms have individual climate control. Washing machines and dryers are located in all residential communities.

Undergraduate students living in a residential commons or traditional residence hall are required to purchase a meal plan offered by SMU Dining Services. Like the housing license agreement, the meal plan obligation is for the entire academic year and is billed and paid for on a term basis. Students living in Moore, Daniel, and Service House are exempt from the meal plan requirement. For more information, students should visit www.smu.edu/housing or contact the Department of Residence Life and Student Housing, Southern Methodist University, PO Box 750215, Dallas TX 75275-0215; phone 214-768-2407; fax 214-768-4005; housing@smu.edu.

Enrollment and Academic Records

The standards herein are applicable to all students at the University and constitute the basic authority and reference for matters pertaining to University academic regulations and records management. Enrollment in the University is a declaration of acceptance of all University rules and regulations. A complete *University Policy Manual* is available at www.smu.edu/policy. Additional information regarding rules and regulations of the University can be found in this catalog. Undergraduate students must follow the University-wide, General Education and Proficiencies and Experiences requirements for graduation that are in effect for the academic year of matriculation to SMU. The applicable requirements of majors and minors are those in effect during the academic year of matriculation to SMU or students may choose a subsequent academic year. Students may not follow a catalog for an academic year in effect prior to their matriculation term. Students who are not enrolled for three or more years will return to SMU under the current catalog.

General Policies

Confidentiality of Education Records

The Family Educational Rights and Privacy Act of 1974 (FERPA) 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 its own FERPA-based guidelines that are available at the University Registrar's Office FERPA website www.smu.edu/FERPA. Policy 1.10 of the *University Policy Manual* 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 my.SMU Student Homepage that it be withheld, 2) information authorized by the student through my.SMU Student Homepage 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. Additional information is available at www.smu.edu/FERPA.

Student Identification Number

The University assigns each student an eight-digit SMU identification number, which is used to verify each student's identity and is provided without additional charges. The student should furnish the SMU ID number on all forms when requested, as this number is the primary means the University has to verify the identity for each student's academic records and transactions related to the records.

Name Change

A student who has a change in name must provide the University Registrar's Office with their Social Security card, the form issued by the Social Security Administration, or an official court order indicating the name change, along with a valid government-issued photo ID. A valid passport may also be used to complete a name change. 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 transcripts and diplomas are issued only under a person's legal name as recorded by the University Registrar's Office.

Preferred Name

Students who wish to use a name other than their legal name can add a preferred name to their file in addition to their primary/legal name, or update a preferred name already on file, using the self-service functions in the my.SMU Student Dashboard. The University will make efforts to use the preferred name in communications and in the course of university business. However, there are situations that due to business practices, legal requirements or system limitations the use of a primary/legal name will be used.

SMU has many offices that keep records with student names and many data systems used for specific applications. In addition to updating their preferred name in my.SMU, students may need to notify some offices regarding their use of a preferred name.

A preferred name is a first, middle and/or last name that may be chosen to be used instead of legal first, middle and last name. There is no documentation required to create or change a preferred name. Students are advised that if they choose to use a preferred name, they should use it consistently and resist changing it frequently. Students also are advised that the use of a preferred last name can lead to confusion with employers and organizations in attempting to match official educational records with applications and it is recommended that students provide both their preferred and legal names on applications.

Here is a partial list of standard name usage:

Display name – my.SMU Student Dashboard	Preferred name, if provided
Instructor Class Roster	Preferred name, if provided
Instructor Grade Roster	Preferred name, if provided
Canvas	Preferred name, if provided
Global Directory of email addresses	Preferred name, if provided
SMU online directory	Preferred name, if provided
SMU ID Card	Primary (legal) name
Financial Aid related forms and documents	Primary (legal) name
Official Academic Transcript	Primary (legal) name
Diploma	Primary (legal) name or derivative
Degree Verifications	Primary (legal) name
Housing / Residence Life	Preferred first name, Primary last name
SEVIS Reporting (international students)	Primary (legal) name

Email and Mailing Addresses, Telephone, and Emergency Contact

Each student must provide the University Registrar's Office with both a home and local address, both a home and local telephone number and contact information of a designated emergency contact using the self-service functions in the my.SMU Student Dashboard. 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 who enroll in an arranged section course will be asked to provide the University Registrar's Office with an off-campus study address. This is the physical location the student is living while enrolled in this course.

When a student applies for graduation and becomes a candidate they can provide a diploma address (address to which they would like their diploma mailed) to the University Registrar's Office.

International students are required to provide a residence address (physical street address where they are currently living) as their mailing (local) address. International students will be prevented from enrolling if a U.S. address is not provided.

Students are expected to keep current all their addresses and telephone numbers, including emergency contact details, using the self-service functions in the my.SMU Student Dashboard. Students may be prevented from enrolling if their information is insufficient or outdated. Changes to parent information should be reported by contacting records@smu.edu, and the email should include the student's full name and SMU student ID number.

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.

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 mobile/cell telephone numbers, as they are one means of communicating with students during an emergency. Mobile/cell telephone numbers may also be used by University officials conducting routine business.

Ethnicity
SMU requires that a valid ethnic group category be on file for all students. SMU's policies and the Family Educational Rights and Privacy Act of 1974 protect the confidentiality and privacy of this information. A student's ethnic group category can be viewed in the my.SMU Student Dashboard.

U.S. Citizens or Permanent Residents. Ethnicity is self-determined. Students of multiple ethnic backgrounds may select multiple ethnic group categories. If the ethnic group value is incorrect, the student should go to the University Registrar's Office in the Laura Lee Blanton Student Services Building and complete an Ethnic/Racial Category Update Form.

International Students Living in the U.S. While Attending School. Selecting an ethnic group category is not required unless the student becomes a U.S. citizen or permanent resident.

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 $12.50 per copy. Additional copies in the same request mailed to the same address are $3.50. Additional copies mailed to different addresses are $12.50 a copy. PDF transcripts are $16.25 per email address and are available only for students who attended after summer 1996.

Note: 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. Instructions for requesting a transcript to be mailed or picked up on campus are available at www.smu.edu/registrar ("Transcript Requests" link). A student may request their official transcript through the online my.SMU Student Homepage. 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 Student Services Building.

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/LegalDisclosures/FERPA/Forms.

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

Veterans
The University Registrar's Office certifies veterans each term for their benefits under federal programs, including the Yellow Ribbon Program. Most academic programs at SMU qualify for U.S. Department of Veterans Affairs benefits, making an SMU education accessible and affordable. Veterans are required to provide specific documents before they can be certified with the VA's Veterans Benefits Administration. Specific information regarding the certification process is available from the University Registrar's Office at www.smu.edu/enrollmentServices/Veterans.

The University complies with Title 38 United States Code Section 3679(e) which states that any individual who is entitled to educational assistance under chapter 31 (Vocational Rehabilitation and Employment) or chapter 33 (Post 9/11 GI Bill®) benefits will be permitted to attend or participate in the course of education during the period beginning on the date on which the individual provides to the educational institution a certificate of eligibility for entitlement (or "Statement of Benefits" obtained from the Department of Veterans Affairs' website – eBenefits, or a VAF 28-1905 form for chapter 31 authorization purposes) for said entitlement and ending on the earlier of the following dates: a) the date on which payment from VA is made to the institution; or b) 90 days after the date the institution certified tuition and fees following the receipt of the certificate of eligibility. SMU will not impose any penalties, including the assessment of late fees, the denial of access to classes, libraries, or other institutional facilities, or require that a covered individual borrow additional funds to meet their financial obligation due to delayed disbursement funding from VA under chapter 31 or 33. However, if the anticipated funding from VA will not cover all tuition and fees, then the student is responsible for paying the difference immediately. Failure to do so may result in late or past due fees. Students who wish to be certified under chapter 31 or 33 must request in writing each semester that they wish to be certified and provide an updated statement of benefits. Additional documents are required to be submitted to the University upon initial request to be certified. For more information, refer to the Registrar's Office website at www.smu.edu/enrollmentservices/veterans.

Final Examination

Final course examinations shall be given in all courses where they are appropriate, must be administered as specified on 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 with the concurrence of the dean of that school, who will allow exceptions only in accordance with guidelines from the Office of the Provost.

Complaint Procedures for Students With Disabilities

The complaint procedures for students with disabilities are available in the Disability Accommodations and Success Strategies office, Loyd Center, Suite 202 and online at www.smu.edu/sasp/DASS.

Classification of Students

A student's classification is determined by the number of hours earned or by the degree-seeking status of the student:

First Year	0-29 credit hours earned
Sophomore	30-59 credit hours earned
Junior	60-89 credit hours earned
Senior	90 or more credit hours earned
Nondegree	not a candidate for a degree

Credit Hour Loads

The unit of measure for the valuation of courses is the credit hour. Based upon the federal definition of a credit hour, each credit hour requires one hour of direct faculty instruction and a minimum of two hours per week of preparation on the part of students, for approximately 15 weeks a term. Most courses are valued for three credit hours, i.e., three contact hours per week and at least six hours of preparation. For three-credit-hour courses deployed via different course types, modes of delivery, or calendars, total number of direct contact hours should be equal to or greater than 45 hours, with the total out-of-class work equal to or greater than 90 hours. Courses that deviate from this standard must provide documentation illustrating how the number of contact hours and/or work outside the course equate to this standard within the term in which the course is offered.

A full-time load in the fall and spring is 12 credit hours for undergraduates. For the summer term (all sessions in the summer term combined) a full-time load is nine hours for undergraduates. On request an undergraduate can be certified as full-time for the first or second session of the summer term at six hours. Students who enroll for fewer than these minimum hours are designated part-time students. The normal undergraduate enrollment for each of the regular terms is 15 credit hours. An undergraduate student enrolled in an engineering co-op course or enrolled for six hours of student teaching is considered a full-time student.

Cautionary Note: Federal financial aid agencies and some other agencies require a minimum number of hours of enrollment for full-time status and do not make exceptions for summer, internship, co-op or student-teaching enrollments. Students on financial aid should consult an adviser in the Financial Aid Office regarding minimum enrollment requirements for their situation.

Likewise, international students on an F-1 or J-1 visa should consult an adviser in the International Student & Scholar Services Office regarding minimum enrollment requirements for their situation.

Minimum and Maximum Course Loads. Minimum and maximum course loads allowed for the fall and spring terms are based on the school of record. The maximum course load allowed for a summer term (all sessions combined) for all schools of record is 14 credit hours. Each student should be fully aware that hours taken beyond 18 in any term will be charged to their student account.

SMU Pre-Majors. Students who have not yet declared a major and who wish to enroll for more than 18 credit hours in a fall or spring term must have the approval of their academic adviser and the University Advising Center.

Dedman College of Humanities and Sciences. Majors in Dedman College who wish to enroll for more than 18 credit hours in a fall or spring term must have the approval of their academic and/or major adviser and the Office of Records and Academic Services.

Cox School of Business. B.B.A. students may enroll for more than 18 credit hours in a fall or spring term provided their cumulative GPAs (SMU, all-college and business) are 2.000 or higher to show satisfactory progress toward completion of the degree.

Lyle School of Engineering. Students must have the approval of their academic adviser to enroll for fewer than 12 credit hours or more than 18 credit hours during a fall or spring term. Normally, a student must have a GPA of 3.000 or higher to enroll for more than 18 credit hours. An exception is made during the term in which a student is to graduate. Credit will not be allowed for more than 21credit hours in a fall or spring term.

Meadows School of the Arts. Students are not permitted to enroll during a fall or spring term for more than 18 credit hours unless their GPA for the preceding term is at least 3.000. During the term in which a student is to graduate, he or she may enroll for 19 credit hours (or nine hours for a summer session) regardless of the preceding term GPA. A student in the Meadows school cannot receive credit for more than 21 credit hours in a fall or spring term. A student with a GPA below 2.000 for the preceding term will not be permitted to enroll for more than 13 credit hours.

Simmons School of Education and Human Development. A student in the Simmons School with a declared major in applied physiology and sport management or educational studies may enroll for up to 18 credit hours in a fall or spring term. A student may petition to take up to 21 credit hours in a fall or spring term provided he or she meets the following criteria:

1. The student has a cumulative GPA of 3.000 or higher and has demonstrated academic success while enrolled in 18 credit hours in prior terms.
2. The student needs to take the extra hour(s) in order to graduate at the end of the term in which he or she is enrolling.
3. The student has gained permission from their adviser.

Stop Enrollment/Administrative Withdrawal

Insufficient or improper information given by the student on any admission or enrollment form - or academic deficiencies, non-attendance, 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.

Academic Forgiveness

A student can declare courses taken 10 or more years prior to the term of admission or readmission to be forgiven, which means the work is not included in the GPA or credit hours earned when determining admission, academic probation, suspension, honors and graduation. A student should request academic forgiveness at the time of admission or readmission. The student can select the term at which academic forgiveness starts. Academic forgiveness applies to all courses taken during or prior to that term, regardless of the grades earned. Academic

forgiveness cannot be applied to only some courses for a term or to only selected terms within the forgiveness period.

Once academic forgiveness is declared and the student has enrolled, academic forgiveness cannot be rescinded. Forgiven academic work taken at SMU remains on the permanent academic record, with a notation of "academic forgiveness" on the record.

Currently enrolled students cannot request academic forgiveness. Transfer applicants must provide transcripts from all institutions attended, including those where all work may be forgiven.

Transfer Courses from Other Institutions

Courses taken prior to matriculation at SMU: Credit may be awarded for college courses a student takes prior to matriculation at SMU, including courses a student takes before graduating from high school, if the courses meet the criteria for transfer work outlined on the Admission to the University, Transfer Admission Criteria website. Credit may be denied for educational reasons.

Courses taken after matriculation to SMU: Once students have matriculated at SMU, they may transfer no more than 30 credit hours to SMU from accredited four-year colleges and universities. Students who complete more than 30 transferable hours after matriculating can designate which of their courses apply to the 30-hour limit. Students may change the designation of the courses. Students should make these transfer-credit designations in consultation with their records offices.

Note: The policies of all SMU's undergraduate schools require that post-matriculation transfer work must be completed at accredited, four-year institutions. Post-matriculation work at institutions that award principally Associates and Bachelor of Applied Science degrees will not be considered for credit by the undergraduate schools.

Courses taken at another U.S. institution where the instruction is in the U.S.: To ensure in advance that a course taken at another accredited college or university will transfer and that proper credit will be awarded, the student taking the course should obtain prior approval from the chair of the department, the academic adviser, the student's school of record and the Assistant Provost for General Education. Electronic petitions for pre-approval of transfer work are available on the Registrar's Office Forms Library at smu.edu/registrar. Students who fail to secure prior approval for transfer work taken within the United States must petition later for transfer credit, but they have no assurance that credit will be awarded. In either case, permission may be denied for educational reasons.

Courses taken at International Institutions or International Campuses of U.S. Institutions: Without Education Abroad Council (EAC) approval, SMU students who are U.S. citizens may not take courses at institutions located outside of U.S. (whether at an international institution or at an international campus of a U.S. institution), with the exception of direct enrollment through SMU on an approved SMU Abroad program. This policy applies whether courses are taught remotely or face to face. Students who take such courses without permission will not receive SMU credit. Students desiring to take a course on a non-approved SMU Abroad program may request approval through the process described below.

Requesting Permission to Study on a non-SMU Abroad Program: SMU students who wish to study abroad through a program or university not already affiliated with SMU can petition SMU Abroad for special approval of the requested program or university. Programs must be petitioned no later than October 1st of the academic year preceding the intended semester of study. Students working with the Office of National Student Fellowships should consult the Director for important internal deadlines. Approval of such abroad programs is not guaranteed, and can take several months to obtain. If the special request to study abroad is approved, the student will still be required to apply for abroad study through the regular process by the regular deadline. (For information on deadlines and processes, see the SMU Abroad website at www.smu.edu/international/abroad.) Courses taken through the SMU Abroad Office are treated as SMU coursework.

International Students Taking Courses in their Home Country: International students, who have matriculated at SMU on an F-1 or J-1 visa program, must request permission prior to taking courses at an approved institution in their home country (the EU is considered the home country for any EU citizen). In order to make this request, the student must complete the "Undergraduate Request for Advanced Approval for F-1 and J-1 Visa Holders to Attend a Non-SMU Affiliated Study Abroad Program or a Non-US Institution" petition (available through the Registrar's

Forms Library). Students must individually petition each course they wish to take, and these petitions must be reviewed and approved prior to enrollment. Review of such requests requires verification of F-1 or J-1 status (through the Office of International Student and Scholar Services) and submission of a full and current syllabus for each course petitioned. A full and current syllabus is a syllabus in English that is from the same academic year as the request and contains the following information:

- Name and Credentials of the instructor
- Daily Schedule including contact hours
- Assigned Readings
- Assignments
- Grade Breakdown
- Relevant learning outcomes

If no syllabus in English is available, students must submit a certified translation of the course syllabus. Upon completion of an approved course, students must submit an official transcript to SMU for processing of credit. Students will not receive SMU credit for any course taken prior to obtaining formal SMU approval. A maximum of 30 credit hours can be transferred post matriculation.

All international university transcripts must be accompanied by a professional evaluation and an official transcript, including an English translation if it is not in English, and course descriptions or syllabi. It is the student's responsibility to procure this evaluation and to assume financial responsibility for it.

SMU accepts evaluations only from the following agencies:

- International Academic Credential Evaluators Inc. (www.iacei.net)
- International Education Evaluators, Inc. (www.myiee.org)
- Josef Silny & Associates Inc., International Education Consultants (www.jsilny.org)
- World Education Services Inc. (www.wes.org)

The evaluations provided by the above agencies should include an explanation that the institution is recognized by the ministry of education in the student's home country and is generally considered to offer at least the equivalent of U.S. higher education credit. In addition, it should include an explanation of the credits, the grading system and course levels, as well as a course-by-course evaluation. The report is not binding to SMU and it will be considered a recommendation for SMU's independent decision of the credit to be given. Information and applications from the agencies are available online.

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 school's records office monitors progress and maintains official degree plans for all students in a school. Students should schedule conferences with their academic advisers and the school's records office upon admission to a school and prior to their final term to ensure that they are meeting all University and graduation requirements.

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 at https://www.smu.edu/EnrollmentServices/registrar/Enrollment.

To assist new and readmitted students in making a comfortable, satisfying transition to University academic life, programs of academic advising, enrollment and orientation are conducted prior to each term. Information concerning the programs is distributed by the Office of the Student Experience.

Each student is personally responsible for complying with enrollment procedures and for ensuring the accuracy of their 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 a Petition for Enrollment Policy Exception. Petitions are to be submitted to the appropriate records office

within six months of the term in which the discrepancy appeared; contact information for submitting a Petition for Enrollment Policy Exception can be viewed on the University Registrar's Office website at www.smu.edu/EnrollmentServices/Registrar/Enrollment/EnrollmentPolicyException. Petitions submitted later than six months after the discrepancy may not be considered.

Enrolling for Graduate Courses

Accelerated Pathway Programs

The Accelerated Pathway Programs policy applies to undergraduate students who enroll in one of SMU's Accelerated Pathway Programs. Institutional aid may be eligible for covering tuition costs associated with graduate courses as described below.

Students may not enroll for any graduate level coursework to be applied toward their master's degree, prior to the accumulation of 90 credit hours toward their baccalaureate degree. Students must apply and be admitted as a graduate student at least one fall or spring term prior to receiving their master's degree having had their baccalaureate degree conferred prior to that term. Students must enroll and be in good standing as a half-time status graduate student for at least one term prior to receiving their master's degree.

Graduate hours earned as an undergraduate are included in the determination of full-time status for the term. Graduate hours and grades earned as an undergraduate that count towards their baccalaureate degree are included in the undergraduate scholastic totals and the graduate scholastic totals. Graduate hours and grades earned as an undergraduate that do not count towards that baccalaureate degree are excluded from the undergraduate scholastic totals but are included in the graduate scholastic totals. The maximum number of graduate hours (up to 30 hours) that may be taken in the final year of the baccalaureate degree is mandated by SMU's accrediting agency, the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC). The number of graduate hours which may be counted toward the baccalaureate degree is determined by the school to which the master's degree belongs. An undergraduate is limited to earning a maximum of 30 graduate hours as an undergraduate student after the completion of 90 credit hours towards their baccalaureate degree. A student must earn a minimum 150 combined hours to be conferred both a baccalaureate and master's degree.

Students considering an Accelerated Pathway Program should consult with the Office of Financial Aid about its effect on federal, state and institutional aid.

Other Graduate Course Enrollment

In addition to the Accelerated Pathway Programs, with the written permission of their academic dean and permission of the dean of the graduate courses, an excelling undergraduate student may enroll for graduate level coursework that will be part of their undergraduate record, count towards the undergraduate degree and be included in the undergraduate scholastic totals. The undergraduate student must have accumulated 90 credit hours toward their baccalaureate degree. Graduate hours enrolled as an undergraduate are included in the determination of full-time status for the term. An undergraduate is limited to earning a maximum of 30 graduate hours as part of their undergraduate record.

Schedule Changes

The deadline for adding courses, dropping courses without grade record and changing sections for each enrollment period is listed on the Official University Calendar (www.smu.edu/registrar). 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* (Withdrew) through approximately midterm by using the my.SMU Student Dashboard. The specific deadline is listed on the Official University Calendar.

After the deadline date on the Official University Calendar, the student may not drop a class. All schedule changes must be processed by the deadline date specified on the Official University Calendar. **Note:** 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 their athletic participation and financial aid. After the consultation, the Athletic Compliance Office will update my.SMU 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 must consult with the International Student & Scholar Services Office prior to dropping a course. (Contact isss@smu.edu for consultation.) If dropping a course will cause the student to be enrolled in fewer than 12 credit hours, the student's immigration status could be affected. After the consultation, the International Student & Scholar Services Office will update my.SMU to allow the student to process the drop, if necessary. 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. (See www.smu.edu/EnrollmentServices/FinancialAid for information regarding your financial aid counselor.) If dropping a course will cause the student to be enrolled in fewer than 12 credit hours, the student's financial aid status may be affected. After the consultation, the student may drop a course through the my.SMU Student Dashboard. The consultation is advisory; students are responsible for their enrollment. Questions regarding this procedure or financial aid should be directed to the Office of Financial Aid.

Notice of Special Topics

Students enrolling in special topics courses such as Directed Research, Private Study, Directed Readings, etc., may request to have the subject of their course noted on their transcripts. Students may make the request by filling out a "Notice of Special Topic" form, which may be obtained from the instructor and must be submitted to the Office of the University Registrar before the last day of classes for the term.

Early Intervention and Mid-Term Grading

Each fall and spring term, faculty are required to submit early intervention deficient grades for all undergraduate students around the 5th week of the term, and midterm deficient grades for all undergraduate students around the 11th week. Please refer to the Academic Calendar for specific grading deadlines.

Notes:

- Progress grades are not recorded on a student's permanent academic record.
- Only courses with reported grades of *C-, D+, D, D-, F, FA* (Failure due to attendance), or *FT* (Failure due to tests) are included on both the early intervention deficiency and mid-term deficiency reports.
- Students are notified via email that they have a Deficiency Report in my.SMU. This information is shared with the Office of Student Academic Success and Engagement, the student's records office (University Advising Center for SMU Pre-Majors), and the Altshuler Learning Enhancement Center (A-LEC).
- Additional outreach may be initiated through the Office of Student Success and Retention, as well as other offices. More information may be found at https://www.smu.edu/Provost/ProvostOffice/SAES/Office-of-Student-Success-and-Retention.

Withdrawal from the University

Policies on refunds for withdrawal from the University are found in the Financial Information section of this catalog and in the Financial Information Bulletin. No refunds are made without an official withdrawal.

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 for each 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 their 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 their **schedule prior to the first day of the term**, 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 contact the Office of Student Success and Retention (ssr@smu.edu) to complete an Undergraduate Student Leave, Withdrawal, and Cancellation Request form. The effective date of the withdrawal is the date on which the form is processed in the University 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 tenth class day of the fall or spring semester as listed on the Official University Calendar will be canceled. Courses and grades are not recorded for canceled enrollments; however, the student will owe a portion of their tuition and fees. Additional information is available in the Financial Information Bulletin. A student who withdraws after the tenth class day of the fall or spring semester will receive the grade of *W* in each course in which he or she enrolled.

Medical withdrawals allow a prorated refund of tuition and fees and have conditions that must be met prior to re-enrollment at SMU. Medical withdrawals can only be authorized by professionals in the Dr. Bob Smith Health Center, Dean of Student Life, or Vice President for Student Affairs. The last day for a medical withdrawal is the last day of class instruction for the term from which the student is withdrawing. Retroactive medical withdrawals cannot be granted.

Mandatory administrative withdrawals occur when a student is not suspended but current and/or future enrollments are canceled or withdrawn. A student's academic record is annotated with "mandatory administrative withdrawal" and the effective dates for this withdrawal. Mandatory administrative withdrawals allow a prorated refund of tuition and fees and have conditions that must be met prior to re-enrollment at SMU. Mandatory administrative withdrawals can be authorized only by the Provost and Vice President for Academic Affairs, Vice President for Student Affairs or Dean of Student Life.

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

Audit Enrollment (Course Visitor)

Individuals desiring to audit (visit) a class, including those concurrently enrolled for regular coursework, are required to process an Audit Permit form. Audit Permit forms must be completed, approved and received in the University Registrar's Office no later than the last day to enroll for the term. Forms are available at www.smu.edu/EnrollmentServices/Registrar/FormsLibrary. 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 individual'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. Undergraduate students enrolled full time, for any given term (12 credit hours for fall and spring or nine credit hours per summer term) may audit one three-hour course at no charge.
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, 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 of classes in summer sessions; the second day of classes in intersession terms) 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, and the student is listed on class rolls. This enrollment is different from audit enrollments, for which no enrollment or grade is recorded.

SMU Abroad students should also see the Grade Options for Courses Taken on SMU Abroad Programs section of this catalog.

Class Attendance

Regular class attendance is required. At the beginning of the course, the instructor announces policies regarding the effect of class attendance and tardiness on the student's standing in the course via the course syllabus. These policies may include dropping a student from the course for nonattendance or tardiness as described below. All reasons for absence or tardiness should be submitted at once to the instructor.

The satisfactory explanation of absence may release a student from disciplinary action but does not relieve a student from responsibility for the work of the course during their 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 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 course. To avoid this possibility, students should contact the instructor or the department immediately following such a series of absences.

Students may be dropped by a course instructor or academic dean for nonattendance or tardiness with a grade of *W* until the University deadline to drop. Department chair approval is required. After the deadline, students must remain enrolled in the course.

Students may also be dropped by a course instructor for extreme inappropriate classroom behavior. The instructor must submit the Administrative Drop Request to drop a student from the course by the University deadline to drop a course indicated in the official Academic Calendar. Department Chair approval is required. After the deadline, the student must remain enrolled in the course and receive a final grade of *F*.

Students are charged an administrative fee for instructor initiated drops for attendance, tardiness and disruptive behavior.

A student who has a passing grade in a course at the time of the final examination, but who misses the examination and satisfies the instructor that the absence was unavoidable, may secure permission to take the examination at a time convenient for the instructor.

Excused Absences for University Extracurricular Activities and Religious Holidays

Students who participate in officially sanctioned, scheduled University extracurricular activities or observe a religious holiday should be given an opportunity to make up class examinations or other graded assignments missed as a result of this participation or related travel. The manner in which examinations or other assignments missed because of these activities are to be made up is left to the discretion of each individual faculty member. However, students should not be penalized in any way for these excused absences and should be informed by the instructor at the beginning of the term, preferably in writing, of the instructor's makeup policy. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up this work, and to obtain any class notes or other course material missed due to absence prior to taking any subsequent examinations or submitting any subsequent graded assignments.

This statement of University policy applies for all students. To minimize the difficulties caused for both student-athletes and their instructors by excused absences due to University-sanctioned athletic activities or related travel, the Athletic Department shall 1) make available to all student-athletes and their academic advisers prior to registration a copy of the student's activity and travel schedule for the upcoming term, so as to facilitate the student's enrollment in class sections that will minimize activity and travel conflicts; and 2) require all student-athletes to provide a copy of that term's activity and travel schedule, and a copy of this Statement of University Policy, to each of their instructors at the first class meeting of the term.

Other University colleges and departments whose students will miss classes because of their participation in officially sanctioned, scheduled University extracurricular activities, related travel, or observing of religious holidays are encouraged to adopt similar procedures to minimize the difficulties caused by such absences.

A list of religious holidays for use in requesting excused absences is available on the Official University Calendar. Students must notify the class instructor in writing by the 12th day of the term of any such absences that will occur during that term. Accommodations are to be made without penalty. More information can be found in the *University Policy Manual*, available at www.smu.edu/policy.

Absence Due to Illness

The Dr. Bob Smith 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.

Interpretation of Course Numbers

Each SMU course has a four-digit course number. The first number indicates the general level of the course (3000-level and higher is considered advanced).

1000-1999	First-year
2000-2999	Sophomore
3000-3999	Junior
4000-4999	Senior
5000-5999	Senior or Graduate
6000-9999	Graduate

The second digit specifies the number of credit hours; exceptions are noted below.

Digit	*Credit Hours*
0	0, .5 or 10-15
1	1 or 1.5

The third and fourth digits are used to make the course number unique within the department.

Grade Policies

A student's grades are available through the my.SMU Student Dashboard.

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.

Grades	*Description*	*Grade Points per Term Hour*
A	Excellent Scholarship	4.000
A-	Excellent Scholarship	3.700
B+	Good Scholarship	3.300
B	Good Scholarship	3.000
B-	Good Scholarship	2.700
C+	Fair Scholarship	2.300
C	Fair Scholarship	2.000
C-	Fair Scholarship	1.700
D+	Poor Scholarship	1.300
D	Poor Scholarship	1.000
D-	Poor Scholarship	0.700
F	Fail	0.000
P, CR, S	Pass, Credit, Satisfactory	*
I	Incomplete	*
NC, U	No Credit Received, Unsatisfactory *W*	*

X	No Grade Received in Registrar's Office	*
W	Withdrew	*

Note: Asterisks denote grades not included in a student's GPA.

Grade of F, D, W, and Missing/Blank

Failing is graded *F*. If the student's work is incomplete, poor quality and not acceptable, a grade of *F* will be given. 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. Courses passed with a grade of *D*, *D*- or *D*+ will generally not count toward major or minor requirements.

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 for the term. The grade of *W* may not be revoked or changed to another grade because the act of officially dropping/withdrawing is irrevocable.

A final official grade must be recorded for each enrollment. An *F* will be assigned for a missing or blank grade indicating an official grade has not been received from the instructor. Graduation candidates must receive a grade for all course enrollments prior to the deadline on the Official University Calendar. Failure to do so can result in removal from the degree candidacy list and/or the assignment of a grade of *F*.

Grade of Incomplete

A student may temporarily 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 my.SMU the requirements and completion date that are to be met and the final grade that will be given if the requirements are not met by the completion date.

The maximum period of time allowed to clear the Incomplete is 12 months. If the Incomplete grade is not cleared by the date set by the instructor or by the end of the 12-month deadline, whichever is earlier, the grade of *I* will be changed to the grade provided by the instructor at the time the Incomplete was assigned or to a grade of *F* if no alternate grade was provided.

The grade of *I* is not given in lieu of a grade of *F* or *W*, or other grade, each of which is prescribed for other specific circumstances.

The grade of *I* in a course does not authorize a student to attend or enroll in the course during a later term. Graduation candidates must clear all Incompletes prior to the deadline on the Official University Calendar, which may allow less time than 12 months. Failure to do so can result in removal from the degree candidacy list and/or conversion of the grade of *I* to the grade indicated by the instructor at the time the grade of *I* was given.

Grade Options for Courses Taken on SMU Abroad Programs

Courses taken on SMU Abroad fall and spring term programs may not be taken on a no-credit or pass/fail basis. The only exception to this policy is for courses designated by SMU's academic departments with no credit or pass/fail as their only grading basis option. Students who study abroad on SMU Abroad fall and spring term programs are enrolled in a SMU placeholder course to denote full-time enrollment. This placeholder course (designated with a Z) is taken on a credit/no-credit basis. Students must submit their transcript from the study abroad program showing successful completion of credit hours to receive a grade of *CR* in the Z course.

Courses taken on SMU Abroad summer programs and during Jan Term (January) may not be taken for a grade of *NC* (No Credit), but students may petition for one of these courses to be graded on a pass/fail basis. Students must petition approval for the pass/fail option from the program director and the faculty member teaching the course. The

deadline to complete the Undergraduate Pass/Fail Option Declaration form to petition for a course taken on an SMU Abroad summer program is the payment deadline for the program; for Jan Term classes, the deadline is no later than the second day of classes for Jan Term. Forms are available in the schools' records offices.

Grade Point Average

A student's grade point average (cumulative GPA) is computed by multiplying the credit 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, not rounded, at three decimal places.

For assistance estimating a student's GPA see the GPA calculator on the SMU website.

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 the request as a written petition, which may become an official part of any further process at the instructor's discretion. 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 in cases where a grade is 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 University Registrar's Office.

Grades for Repeated Courses

Grade Replacement Repeat

Effective for courses taken Fall 2017 or later, undergraduate students may repeat up to six courses taken at SMU for which grades of *D+* or lower were received. The grade from the repeated course, even if lower, will be the grade used to calculate the student's GPA. A course may be repeated only once under this policy.

Students must repeat the exact same course originally taken to be considered a repeat. The course must be taken at SMU. Not every course is offered again and thus may not be available to be repeated. Students cannot take or repeat a course that is a prerequisite for a course already satisfactorily completed.

The first six courses repeated will be coded as Grade Replacement repeats. A course being repeated that is dropped (W) will not count as a grade replacement repeat. Only the credit hours of the repeated course and not the initial credit hours count toward the number needed for graduation. Both the initial and the second grades are shown on the student's permanent academic record. Probation, suspension and dismissal, as determined by the initial grade, stands. Students are cautioned that for some purposes, such as admission into an academic program, both grades or only the initial grade could be used.

Note: This undergraduate policy replaces the former First-Year Repeat policy. Any repeats taken under the First-Year Repeat policy will count against the total Grade Replacement Repeats allowed.

*Students who entered SMU during 2016-17 under the 2016-2017 First-Year Repeat policy may repeat classes taken before Fall 2017, per the guidelines of that policy.

Grade Average Repeat

In all other cases, 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.

Note: Students cannot take or repeat a course that is a prerequisite for a course already satisfactorily completed.

The courses a student can repeat are determined by the school of record:
Dedman College of Humanities and Sciences. Students can repeat courses in which the original grade was *D+* or below. Other requests to repeat courses can be made by petition in consultation with the academic adviser/department through the Dedman Office of Records and Academic Services.

Cox School of Business. Students can repeat only those courses in which the original grade was a *D+* or below.

Lyle School of Engineering. Students can repeat courses in which the original grade was a *C-* or below. Such courses can be repeated only once.

Meadows School of the Arts. Students can repeat courses in which the original grade was a *C-* or below. Such courses can be repeated only once.

Simmons School of Education and Human Development. Students majoring in applied physiology and sport management can repeat a course once in which the original grade was a *D+* or below. Students in the Department of Teaching and Learning's educational studies degree program must repeat all required teacher education courses if they earn below a grade of *C*. Students pursuing a major or minor in Applied Physiology and Sport Management must repeat a course if they earn below a grade of *C-*. All students in the Simmons School may elect to repeat a course only once if the original grade was a *C-* or below.

Pass/Fail Option

Students may elect to take one course per term on a pass/fail basis. The maximum total credit with a grade of Pass that may count toward a degree is 12 hours. In addition to these courses, students on the University Curriculum (UC) may take up to four additional Personal Responsibility and Wellness (PRW2) courses beyond the courses required for their degree requirements. Only one additional PRW2 course may be taken per term. For students on the UC, these additional PRW2 courses are graded on a pass/fail basis only and do not count toward the minimum hours for a student's degree requirements or toward the one pass/fail course per term limitation.

A student must indicate intention to take a course pass/fail no later than the 12th day of classes (the fourth day of classes in summer sessions; the second day of classes in intersession terms) by completing the Undergraduate Pass/Fail Option Declaration Form. Students participating in SMU Study Abroad should review the deadlines under Grade Options for Courses Taken on SMU Abroad Programs. After the declaration of intent, students may not change their pass/fail declaration back to a letter grade. If a department grades a course pass/fail for all students, a declaration by the student is not required. A failed course cannot be repeated on a pass/fail basis, except for those courses designated as pass/fail-only courses.

Students should consult with their academic advisers before declaring the pass/fail option for any course, as some courses may not be taken pass/fail. In general, elective courses may be taken on a pass/fail basis. With the exception of courses only offered on a pass/fail basis, courses required to fulfill the Common Curriculum may not be taken pass/fail. Courses in the academic majors and minors also are excluded; however, in some programs, courses may be taken pass/fail after the minimum program requirements have been met. SMU schools may have different pass/fail policies for major and minor courses; students should see the academic requirements in each school's section of this catalog for information on pass/fail grading. There may also be other courses required to meet certain professional accreditation standards or entrance requirements, such as teacher preparation and preprofessional studies, that may not be taken pass/fail by a particular student. It is the student's responsibility to be aware of such limitations and requirements.

Under the pass/fail option, pass (*P*) grades are *A, B* and *C* (including *C-*); failing (*F*) grades are *D+, D, D-* and *F*. A student who declares pass/fail is not entitled to know the regular letter grade, and a pass/fail grade cannot be changed to a regular letter grade (or vice versa) after the pass/fail grade has been assigned. The grade of *P* is not calculated in the GPA, although the credit hours are included in the total number of hours earned. The grade of *F* is calculated in the GPA. No courses in the Simmons School's educational studies degree program may be taken on a pass/fail basis.

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 decision on 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 non-departmental 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.

Grade Forgiveness
SMU's policy for omitting courses from a student's GPA is found under Academic Forgiveness in the General Policies section of this catalog.

Academic Advising and Satisfactory Progress Policies
Academic Advising
Academic advising is an important process for each undergraduate student at SMU. Students must meet with their 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 my.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 their academic performance.

Students are assigned an academic adviser by their academic dean's office, records office or major department. A student who enrolls without first meeting with their assigned academic adviser may be subject to sanctions including, but not limited to, cancellation of the term enrollment and restriction from the self-service enrollment functions.

Mandatory Declaration of Major
Students officially declare their major when they have made a firm choice and when they have met the specific program entrance requirements for their intended school and department. For most students, the declaration of the major occurs in the sophomore year. Students are expected to qualify for and to declare a major no later than upon completion of 75 credit hours, including credits by examination and transfer credits, in order to continue their studies at SMU. Students in the Simmons School's educational studies degree program have a primary major prior to declaring the secondary educational studies major; they cannot graduate with an educational studies degree alone.

Change of Academic Program
Undergraduate students who desire to change their academic program - that is, transfer from one school to another within the University, change their degree objective, change their major or change their minor - should first notify the records office of the school in which they are currently enrolled. Students can change their academic program at

any time during a term. The program change is effective on the date received, approved and processed. However, changes should be made at least one week prior to enrollment for a term for the change to be effective for that enrollment.

A visiting student who wishes to be admitted to an undergraduate program offered by a school of the University must meet all standard University admission requirements.

Concurrent Degree Programs

Students can simultaneously earn degrees from multiple schools of the University with approval of the records offices of each school. The requirements for each degree must be met. Students should meet with advisers in each school at an early date to prepare a proposed plan of study and to complete the processing of all necessary forms.

Leave of Absence

A leave of absence is a temporary leave from the University - a kind of "timeout" - that may be necessary during an academic career. 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 situations that require 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 Enrollment Services. 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 return to SMU and successfully finish the degree.

The SMU 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.

In addition, students who are participating in study-away programs that do not fall under the auspices of SMU should complete the Leave of Absence Form. The completion of this process will assist all respective offices at SMU to create and monitor a formal, centralized record of the status for all students who are not enrolled. The Leave of Absence Form and Leave of Absence procedures are available at www.smu.edu/registrar ("Forms Library" link). The *University Policy Manual* is available at www.smu.edu/policy.

The first step to effect a leave of absence is for the student to contact the Office of Student Success and Retention (ssr@smu.edu), who will then assist the student with the process.

Academic Progress

The University sets the goal and expects that all undergraduate students will make regular and satisfactory progress toward their degrees. There are three categories that may apply when an undergraduate student is not making satisfactory academic progress: 1) academic probation, 2) academic suspension or 3) academic dismissal. This policy sets out the standards and procedures for each of these categories. In addition, a student who has been suspended may seek academic reinstatement under the standards set out in this policy.

Definitions: Academic Probation, Academic Suspension, Academic Reinstatement and Academic Dismissal

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. 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 be subject to academic suspension if he or she does not clear academic probation. For academic probation periods and guidelines, students should see the Academic Probation sections below under the appropriate school of record.

Academic Suspension. Academic suspension is an involuntary separation of the student from SMU. Academic suspension is for at least one regular term. The term of suspension might be for a longer period depending on the policy of the school of record or the terms of the individual student's suspension. Students suspended from one school are suspended from the University.

The status of academic suspension is recorded on a student's 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. Students who have served their suspension and who are eligible to return may not enroll for any intersession terms without permission from their school of record.

Credits earned at another college or university during a term of suspension may not be applied toward an SMU degree. A grade point deficiency must be made up through enrollment 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 he or she 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. A second suspension results in an academic dismissal from the University. Academic dismissal is final, with no possibility of reinstatement or readmission to the University. Academic dismissal is recorded on the student's permanent academic record.

University-wide Requirements

Academic Probation. For all undergraduate students, a student will be placed on academic probation if he or she fails to meet the following:

1. For a student who enters SMU directly from high school or a student who enters SMU with fewer than 15 transfer hours, when the student fails to complete the Discernment and Discourse sequence and/or the Quantitative Foundation requirements of the University Curriculum after the completion of 60 units earned as SMU credit.
2. For a part-time student or a student who enters SMU with at least 15 transfer hours, when the student fails to complete the Discernment and Discourse sequence and/or the Quantitative Foundation requirements of the University Curriculum after completion of 30 units through enrollment at SMU.

Academic Suspension. For all undergraduate students, a student will be placed on academic suspension if he or she fails to meet the following:

1. For a student who enters SMU directly from high school or a student who enters SMU with fewer than 15 transfer hours, when the student fails to complete the Discernment and Discourse sequence and/or the Quantitative Foundation requirements of the University Curriculum after the completion of 75 units earned as SMU credit.
2. For a part-time student or a student transferring more than 15 hours, when the student fails to complete the Discernment and Discourse sequence and/or the Quantitative Foundation requirements of the University Curriculum after completion of 45 units earned as SMU credit.

SMU Pre-Majors

Academic Probation. For SMU Pre-Majors, once a student's cumulative SMU GPA falls below 2.000, the student is placed on academic probation at the beginning of the next enrolled term (fall, spring or summer). The student has the next two enrolled regular terms (fall, and spring) and the first summer term following the probation start date to raise their cumulative SMU GPA to at least a 2.000. A student has the opportunity to enroll only for one summer term while on academic probation. The summer term must be at SMU.

When the student is placed on academic probation because their cumulative SMU GPA is below 2.000, then the student will be assigned to a designated probation counselor. At the beginning of their next term at SMU, the student will be required to complete a self-assessment and share this self-assessment with the probation counselor, who will then work with each student to determine the appropriate academic interventions. These academic interventions can include, but are not limited to, the following:

1. Re-evaluation of course enrollments and pre-major objectives.
2. Biweekly academic counseling sessions with the probation counselor (or their designee).

3. Enrollment in courses, such as HDEV 1110 - Academic Success and Personal Development or HDEV 1211 - Success Strategies, aimed at improving academic performance.
4. Evaluation of medical and/or psychological needs such as the need for drug or alcohol education.
5. Participation in tutoring and/or study skills workshops.

The student will sign a contract that stipulates the agreed-upon academic interventions.

Academic Suspension. If a student does not achieve a cumulative SMU GPA of at least a 2.000 according to the stipulations stated above, then he/she will be placed on academic suspension. A student is suspended effective the first day of the next term (fall, spring or summer), and the suspension period includes a minimum of one regular term (fall or spring). Credits earned at another college or university during a term of suspension may not be applied toward an SMU degree. A grade point deficiency must be made up through enrollment at SMU.

A student may petition to the University Committee on Academic Petitions for an additional, consecutive probationary term if the term GPA during the student's probationary period indicates academic improvement and if the student has undergone all academic recovery efforts agreed upon in the contract with the probation counselor.

As soon as possible after the student is placed on academic suspension, the student should contact the probation counselor if he/she has any desire or intent to seek reinstatement after the period of academic suspension. The probation counselor will work with the student to determine appropriate conditions that the student should satisfy to be eligible for reinstatement. These conditions might include the completion of coursework with a certain minimum GPA; however, reinstatement is not guaranteed.

Academic Reinstatement. A student who has been academically suspended once may apply for academic reinstatement to the University. Reinstatement to the University is not guaranteed. A student is not eligible to request reinstatement until the end of the time period of academic suspension. The request for reinstatement should be submitted to the University Committee on Academic Petitions, which will make a decision on the request. Ordinarily, the decision whether to grant reinstatement will be based primarily on whether the student has satisfied the conditions set out for the period of academic suspension.

A student who is reinstated after academic suspension has two regular enrolled terms (fall and spring) in which to earn a cumulative SMU GPA of at least a 2.000. A student will return on academic probation and may not be reinstated for a summer term. Students who do not earn a cumulative SMU GPA of at least a 2.000 within two regular terms (fall and spring) after having been academically suspended will be permanently dismissed.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Declared Majors

Dedman College of Humanities and Sciences

Academic Probation. Students who have a declared major in Dedman College and whose cumulative SMU GPA falls below 2.000 are placed on academic probation. Academic probation is for a minimum of one regular term (excluding intersessions and summer sessions). The dean may impose special conditions in exceptional probationary situations. Students are removed from academic probation status when they achieve a cumulative GPA of 2.000 or higher.

Academic Suspension. Declared Dedman students whose cumulative GPA remains below 2.000 following a term of academic probation will be suspended. Suspension is for a minimum of one term, not counting intersessions or summer sessions. Credits earned at another college or university during a term of suspension may not be applied toward an SMU degree. A grade point deficiency must be made up through enrollment at SMU.

Reinstatement on Probation Following Suspension. Students who have been suspended once may apply for reinstatement to the University, but reinstatement is not guaranteed. In certain cases, prescribed conditions, including the completion of coursework elsewhere, must be met before a student will be approved for reinstatement. Students who have been reinstated to the University following suspension remain on probation and are normally allowed two regular terms (fall and spring) within which to make up their academic deficiencies and return to good standing. However, special conditions for the first term may be set in individual cases.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Cox School of Business

Academic Probation. A student will be placed on academic probation for one regular term following the term in which the SMU term, cumulative or business GPA falls below 2.000. The business GPA is effective at nine business credits earned. A student on probation must enroll for a minimum of nine credit hours and a maximum of 12 credit hours in the term of probation, will not be allowed to enroll for an internship or directed study, and must meet with the director of academic advising for the B.B.A. program or a designee at appropriate intervals during the term, to be determined by the director. Coursework taken in intersession or summer terms will not affect probationary status. Students who do not meet all requirements of probation will not be removed from probation even if the GPA rises to 2.000 or higher.

Academic Suspension. A student on academic probation who fails to maintain an SMU term, cumulative or business GPA of 2.000, or who fails to complete successfully a minimum of nine credit hours in the term of probation, will be suspended. A student who has been suspended must petition the director of the B.B.A. program for reinstatement, but this petition will not be considered until the student has been suspended for at least one full regular term (summer sessions and intersessions excluded). For example, a student suspended at the end of the spring term may petition for reinstatement for the beginning of the next spring term, but no sooner.

Reinstatement on Probation Following Suspension. Petitions for reinstatement must set forth clearly the reasons for the previous unsatisfactory academic record and must delineate the new conditions that have been created to prevent the recurrence of such performance. Each petition is considered individually on its own merits. After consideration of the petition and perhaps after a personal interview, the student may be reinstated on academic probation if the suspension was the student's first. Reinstated students must meet all requirements of academic probation.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Failure at Other Colleges. Students who are on academic probation or academic suspension from other colleges will not be admitted to the Cox School of Business until they are no longer on probation or suspension with their home school. Students who have received academic suspension twice from any college or university will not be admitted to the Cox School. Failure to disclose any such suspensions will be grounds for dismissal from the Cox School.

Lyle School of Engineering

Academic Probation. A declared Lyle student whose SMU term or cumulative GPA falls below 2.000 may be placed on academic probation. The minimum period of probation is one regular term (excluding intersessions and summer sessions). The student remains on probation until the overall GPA is 2.000 or higher or until he or she is suspended. A student on probation may enroll in a maximum of 13 credit hours per fall or spring term and a maximum of eight credit hours per summer term during the term(s) of probation. The student is not allowed to serve as an officer of any organization representing either the Lyle School of Engineering or SMU. The student on probation may not participate in any extracurricular activities that might interfere with or detract from academic efforts.

Academic Suspension and Reinstatement on Probation Following Suspension. A student on probation who fails to maintain a GPA of at least 2.000 during an academic term will be suspended. A student who has been suspended may petition the dean for reinstatement, but this petition will not be considered until the student has been suspended for at least one full regular term. For example, a student suspended at the end of the spring term may petition for reinstatement for the beginning of the next spring term, but not sooner. Petitions for reinstatement must set forth clearly the reasons for the previous unsatisfactory academic record and must delineate the new conditions that have been created to prevent the recurrence of such performance. Each petition is considered individually on its own merits. After consideration of the petition and perhaps after a personal interview, the student may be reinstated on academic probation if the suspension was the student's first.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Meadows School of the Arts

Academic Probation. A declared Meadows student who fails to maintain an SMU cumulative or term GPA of 2.000 in a regular term (excluding intersessions and summer sessions) will be placed on academic probation for the following regular academic term. A student on academic probation may enroll for a maximum of 13 credit hours and must achieve a term and cumulative 2.000 GPA at the end of the term.

Note: A student who fails to meet divisional artistic standards may be placed on artistic probation at any time.

Academic Suspension and Reinstatement on Probation Following Suspension. A student who fails to meet the terms of academic probation will be suspended for one regular academic term, after which the student may apply for reinstatement. A student may petition the senior associate dean for reconsideration, and the student may be reinstated on academic probation.

A student who fails to meet divisional artistic standards may be suspended from the division at any time.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Simmons School of Education and Human Development

Academic Probation. Declared Simmons School students in the applied physiology and sport management major whose cumulative SMU GPA falls below 2.000 are placed on academic probation. Academic probation is for a minimum of one regular term (excluding intersessions and summer sessions). The dean may impose special conditions in exceptional probationary situations. Students are removed from academic probation status when they achieve a cumulative GPA of 2.000 or higher.

Declared Simmons School students in the educational studies degree whose cumulative SMU GPA falls below 2.500 and whose SMU education courses GPA fall below 3.000 are placed on academic probation. Academic probation is for a minimum of one regular term (excluding intersessions and summer sessions). The dean may impose special conditions in exceptional probationary situations. Students are removed from academic probation status when they achieve a cumulative GPA of 2.500 or higher and an education courses GPA of 3.000 or higher.

Academic Suspension. Declared Simmons School students in the applied physiology and sport management major whose cumulative GPA remains below 2.000 in any regular term following a term of academic probation will be suspended. Declared Simmons School students in the educational studies degree program whose cumulative GPA remains below 2.500 in any regular term following a term of academic probation will not be permitted to continue in the educational studies degree program. While not suspended from the University, these students are not permitted to pursue an educational studies degree. Suspension is for a minimum of one term, not counting intersessions or summer sessions. Credits earned at another college or university during a term of suspension may not be applied toward an SMU degree. A grade point deficiency must be made up through enrollment at SMU.

Reinstatement on Probation Following Suspension. Students who have been suspended once may apply for reinstatement to the University, but reinstatement is not guaranteed. In certain cases, prescribed conditions, including the completion of coursework elsewhere, must be met before a student will be approved for reinstatement. Students who have been reinstated to the University following suspension remain on probation, and they are normally allowed two regular terms within which they can make up their academic deficiencies and return to good standing. However, special conditions for the first term may be set in individual cases.

Academic Dismissal. A second suspension is final, resulting in dismissal from the University with no possibility of readmission.

Disciplinary Actions

Disciplinary actions recorded on the academic record are noted below. For more information on these items, see the Student Handbook.

a. Disciplinary Suspension. A student is separated from the University for an assigned time period, and under the conditions deemed necessary by the conduct review process. A student suspended from the University before an academic semester ends will not receive a refund of any monies paid and is not relieved of any financial obligations to the University, including tuition, fees, and room and board. No academic credit earned during the period of suspension at any other institution may be transferred to SMU. A conduct suspension and its effective dates are recorded on a student's academic transcript. The notation remains for the time the student is enrolled in the University and may be removed three (3) years after graduation. If the student leaves the University before graduation, the notation may be removed three (3) years after the anticipated date of graduation from the University. During the period of suspension the student is considered not in good standing. The removal of the notation must be requested by the student after the designated time period and approved by the Office of the Dean of Students before the notation will be removed.

b. Disciplinary Dismissal (aka, Expulsion). A student is separated from the University on a permanent basis. A student's dismissal will be permanently recorded on their academic transcript. A student dismissed from the University will not receive a refund of any monies paid and is not relieved of any financial obligations to the University, including tuition, fees, and room and board. A student expelled from the University may not enter campus grounds for any reason without express written permission from the Office of the Dean of Students. The dismissed student is considered not in good standing.

c. Disciplinary Violation (DV). A notation indicating a disciplinary violation will be recorded on a students' academic transcript at the direction of the Dean of Students. The notation will remain for the time he/she is enrolled at the University and for three (3) years following their graduation. If the student leaves the University before graduation, the notation may be removed three (3) years after the anticipated date of graduation from the University. A student with a DV notation is considered in good standing. The removal of the notation must be requested by the student after the designated time period and approved by the Office of the Dean of Students before the notation will be removed.

d. Temporary Suspension. Pending a conduct hearing, a student is banned from campus and participation in any SMU-related activities. Student may contact faculty members to request permission to continue individual academic assignments virtually, but faculty are not required to grant the request. A notation is recorded on the student's academic transcript that a conduct matter is pending.

e. Honor Code Violation (HV). A notation indicating an honor code violation will be recorded on a students' academic transcript at the direction of the Dean of Students. The notation will remain for the time they are enrolled at the University and for three (3) years following their graduation. If the student leaves the University before graduation, the notation may be removed three (3) years after the anticipated date of graduation from the University. A student with a HV notation is considered in good standing. The faculty member retains complete discretion to award a grade for the course he or she deems appropriate. The removal of the notation must be requested by the student after the designated time period and approved by the Office of the Dean of Students before the notation will be removed.

Academic Petitions and Waivers

Petitions and/or requests for waivers concerning University requirements, graduation requirements and the evaluation of transfer work should be submitted to the student's school of record office. Additional information is found under Grade Appeals in the Grade Policies section of this catalog. Petitions and/or requests for waivers concerning a major or a minor should be submitted to the appropriate department chair or program coordinator/director for consideration.

SMU Credit Requirement

University policy requires that of the 120 minimum required credit hours for an undergraduate degree, at least 60 hours must be earned as SMU credit through enrollment at SMU's Dallas campus, SMU online offerings, SMU-in-Taos, SMU Abroad programs (both faculty led and provider offerings), and SMU credits awarded based on SMU departmental examination, audition and portfolio reviews.

Credit hours earned in venues not listed above that are applied toward the 120 minimum will be recorded as transfer or test credits. Therefore, regardless of the number of transferable or test credits completed, to receive an SMU

undergraduate degree, students must earn 60 credit hours through enrollment at SMU. Of the 120 minimum required credit hours for an undergraduate degree, only two hours may be Personal Responsibility and Wellness courses. For further degree requirements, students should refer to the individual school sections of this catalog.

Transfer Coursework

Policies for transfer coursework are found under Transfer Courses from Other Institutions in the General Policies section of this catalog.

Graduation Policies

Apply to Graduate

Students must file an Application for Candidacy to Graduate with their schools' records offices no later than the last day of the first week of the term in which they will complete all degree requirements. Applications are filed through the my.SMU Student Dashboard by the deadline date on the Official University Calendar.

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 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 for most programs: fall (December), spring (May) and summer (August). In addition, students who complete their degree requirements during a Jan Term (January), May term or August term will have their degrees conferred at the conclusion of the intersessions.

Commencement Participation

An All-University Commencement Convocation is held in May for students enrolled and on schedule to complete degree requirements during the spring term. Students enrolled and on schedule to complete all degree requirements during the following summer session or May Term may also participate in the University Commencement Convocation, although their degrees will not be conferred until August or following May Term. Students who completed degree requirement during the previous fall or January term who did not participate in the previous all-university December commencement convocation may also participate. Students may also participate in departmental or school ceremonies according to the policies of the departments or schools. Doctoral candidates may participate in commencement only after all degree requirements are complete.

An All-University December Commencement Convocation is held each year for students enrolled and on schedule to complete degree requirements during the fall term. Students who completed degree requirements during the previous summer session may also participate. Students on schedule and enrolled to complete all degree requirements during the following Jan Term (January) intersession may also participate in the December ceremony, although their degrees will be conferred in January.

A student may participate in either the fall or spring All-University Commencement Convocation for a given degree, but not in both.

To participate in a ceremony, a student must apply online and file an Application for Candidacy to Graduate or Intent to Participate Form. Students earning majors in multiple schools must file separately with each school.

Degree Honors

There are three classes of graduation honors: summa cum laude, magna cum laude and cum laude. The awarding of graduation honors will be determined by GPAs announced at the beginning of each academic year for each of the five undergraduate schools - Dedman, Cox, Lyle, Meadows and Simmons. The required GPAs generally represent the top 5 percent, 10 percent and 15 percent of graduates in the school. Students earning a degree with majors in two or more schools will receive the highest degree honors for which they are eligible.

The required GPAs for each school will be determined by pooling all graduates in the school from the previous three academic years. The GPA used is the lower of the student's SMU cumulative GPA and all-college GPA (this includes transfer work). Only undergraduate coursework is calculated.

Students may obtain information about minimum GPAs required in past years from their academic schools or online at www.smu.edu/EnrollmentServices/Registrar/AcademicRecords.

Separate from earning graduation honors, students who have completed the requirements of the University Honors Program may earn honors in the liberal arts. Departmental distinction may also be awarded in Dedman College of Humanities and Sciences, Lyle School of Engineering, Meadows School of the Arts, and Simmons School of Education and Human Development; the Cox School of Business awards the honors in business distinction to students who have successfully completed the requirements for the Cox B.B.A. Honors Program. These honors require completion of requirements prescribed by the department or school. Further information may be obtained from the individual departments and schools.

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 requirements for graduation current at the time of readmission.

General Education

In keeping with the University's educational mission, all undergraduates are required to complete a program of study that emphasizes the values of what historically has been called "a liberal education." This consists of the development of a range of skills and an introduction to academic disciplines that span the range of human knowledge. This type of education teaches students to write and think critically and to develop a basic understanding of human society and activity in all its dimensions. The courses and experiences included in this program of study provide a solid and broad education that will equip students to become lifelong learners, while preparing them to complete more focused study in the major.

The Common Curriculum is the twenty-first century version of the traditional liberal arts curriculum, and it is through the Common Curriculum that SMU ensures that all undergraduates meet the general education requirements stipulated by the U.S. Federal Government and the Southern Association of Colleges and Schools Commission on Colleges. Students are required, based on these standards, to complete, as part of their degree requirements, a general education curriculum that consists of 31 hours. This requirement ensures breadth of knowledge and introduces students to the humanities and fine arts, the social and behavioral sciences, and natural sciences and mathematics. Students with advanced language proficiency, who are able to demonstrate appropriate proficiency on an approved proficiency test, may be able to complete their general education curriculum in 27 hours. The courses in general education, according to these standards, must not focus on the skills, techniques and procedures specific to that student's occupation or profession. SMU's Common Curriculum meets these standards while ensuring that students cultivate the knowledge and skills they need to become successful in the workplace, able to adapt to demands of rapidly changing and increasingly interconnected world.

The Common Curriculum

The motto of Southern Methodist University, Veritas Liberabit Vos ("the truth shall set you free"), epitomizes the ideals of an SMU education and is the fundamental principle for the University Curriculum. The wisdom to acquire and critically reflect on existing knowledge and the insight and capacity to create new knowledge - the hallmarks of an educated person - exemplify the characteristics SMU seeks to instill in its students.

The Common Curriculum contains both general education and graduation requirements. The general education component of the Common Curriculum comprises approximately one-third of the baccalaureate degree plan for all SMU students. It consists of two main coursework components, Foundations and Breadth. The Foundation requirements include two semesters of Writing and Reasoning, Quantitative Reasoning, and a Second Language requirement of intermediate proficiency in a language other than English. These Foundation requirements serve to build on the diverse educational backgrounds of students who enter the university and ensure that all students have the knowledge and skills required to complete an SMU degree. The seven Breadth requirements introduce SMU students to the known range of academic disciplines and give students a variety of intellectual frameworks from which to approach the world and solve the problems they encounter in it. These requirements are Creativity and Aesthetics, Exploring Science, Historical Contexts, Literary Analysis and Interpretation, Philosophical, Religious, and Ethical Inquiry, Social and Behavioral Sciences, and Technological Advances and Society.

In addition to the general education requirements, the Common Curriculum also contains seven graduation requirements. These are Civics and Individual Ethics, Community Engagement, Human Diversity, Global Proficiency, Oral Communication, Quantitative Applications, Writing, and Writing in the Major. These "proficiency and experience" requirements give students the soft skills necessary to be compassionate and engaged citizens of the world, and they are often satisfied in tandem with either general education or major requirements, and may be met with coursework or with the completion of co-curricular activities.

The number of courses and/or credit hours required to complete the Common Curriculum will vary according to the individual student's academic background, preparation, major and curricular choices. The list of Common Curriculum courses will vary by term, and will be listed on the Common Curriculum page, as well as in the course search function of my.smu. Each student has access to a regularly updated and individualized Degree Progress Report that charts their progress and identifies courses the student is using to meet the various requirements. Students are advised to work closely with divisional/departmental and University advisers in navigating the Common Curriculum requirements and planning their coursework each term.

Summary of Common Curriculum Requirements

General Education Requirements

Common Curriculum Foundations

A university education must provide students in all majors with the tools to embark on a lifetime of learning. Common Curriculum Foundations courses assure that students read and write critically, and possess basic awareness of multi-faceted nature of our complex world. Because these skills are essential for a successful college experience, Foundations courses should be completed within a student's first four terms of enrollment.

Writing and Reasoning (6-9 credits, typically 6)

Students will develop competency, clarity, coherence, and organization in their writing and will demonstrate university-level critical reasoning proficiencies through written expression The Common Curriculum emphasizes academic writing and critical reasoning in the first-year Writing and Reasoning sequence. The Writing and Reasoning sequence introduces students to academic thought and written communication in seminars in which students work closely with faculty. All Writing and Reasoning seminars share the goal of assisting students in the development of critical reading and expository and analytical writing.

Students will satisfy this requirement by taking WRTR 1312 in the fall term and WRTR 1313 in the spring. Students scoring lower than a 580 on the SAT-R or lower than 21 on the ACT English section will begin in WRTR 1311 and go on to complete WRTR 1312 and WRTR 1313. Students scoring at or above 580 (SAT-R) or at or above 21 (ACT English) will begin in WRTR 1312. Students scoring a 4 or 5 on the Advanced Placement (AP) English Language/English Literature Test and students scoring 5, 6 or 7 on the International Baccalaureate (IB) English A Literature higher-level exam will receive credit for their scores, but must still take both WRTR 1312 and WRTR 1313 at SMU. No student may fulfill the Writing and Reasoning requirement through AP/IB or other exam credit.

Students participating in the University Honors Program satisfy this requirement with WRTR 2305 and WRTR 2306 in the fall and spring of their first year. Students in the Hilltop Scholars Program may fulfill the requirement with WRTR 2303 in the fall term, and WRTR 2304 in the spring. Each term, students must be enrolled in and may not drop Writing and Reasoning until they have completed the requirement. A minimum grade of C- is required to pass each course.

- WRTR 1311 - Foundations of Written and Oral Discourse
- WRTR 1312 - Introduction to Academic Writing
- WRTR 1313 - Writing and Critical Reasoning
- WRTR 2303 - Hilltop Scholars Academic Writing
- WRTR 2304 - Hilltop Scholars Writing and Critical Reasoning
- WRTR 2305 - University Honors Humanities Seminar I
- WRTR 2305 - University Honors Humanities Seminar II

Quantitative Reasoning (3 credits)

Quantitative reasoning refers to the ability to understand, evaluate and use quantitative information. Quantitative information takes many forms, and quantitative reasoning skills span a vast spectrum from basic numerical manipulations to advanced statistics and mathematics. One three-credit course is required to ensure that students possess these necessary skills. Students scoring a 4 or 5 on the Calculus AB, Calculus BC or Statistics AP tests and students scoring 5, 6 or 7 on the IB Mathematics higher-level exam will place out of this requirement. Math placement testing is also available through SMU's Mathematics credit examinations.

Second Language (0-8 credits)

Students will demonstrate an ability to negotiate meaning in a language other than English in familiar contexts and will demonstrate cultural competence in the related target culture. Second-language learning is a multi-faceted intellectual endeavor that promotes enhanced communication skills in both the native and target language and that fosters cross-cultural communication and understanding. Second-language learners analyze the nature of language through comparison between the target language and their own language. Second-language learners also evaluate information and diverse perspectives that are available through the language and its cultures and engage in critical analysis of culture and identity; they are therefore more readily able to participate in multiple, multicultural communities and are, as a result, adaptable to the challenges of a changing world.

SMU students fulfill the Second Language Foundation Requirement by demonstrating proficiency in second language at the intermediate level, which is equivalent to the level of proficiency attained at the end of the first-year's study of language at the university level.

At SMU, proficiency can be achieved in one of the following ways, after matriculation:

1. Students placing into and successfully completing a course in the second semester level of a language (or above) will be able to satisfy their Second Language Requirement with that course. SMU offers Arabic, Chinese, Classical Greek, French, German, Italian, Japanese, Latin, Russian, American Sign Language, and Spanish
2. Placing into the third term or beyond on the SMU World Languages placement test and also earning an appropriate score on an SMU designated Second Language Proficiency Test. (You will need to pay a non-refundable registration fee for your proficiency test and take the test within one year of matriculation at SMU.)
3. Taking two additional Global Perspectives tagged courses beyond the one required of all students, if this substitution is recommended by the Office of Disability Accommodations and Success Strategies (DASS).
4. Achieving a score of Intermediate-Mid or above on the ACTFL OPI examination in a language not taught at SMU.

Students can fulfill the Second Language Foundation requirement prior to matriculation in one of the following ways:

1. Presenting an appropriate score on a recognized second language proficiency exam (4 or 5 on AP exam; 5, 6, or 7 on IB HL exam).
2. Demonstrating an existing proficiency in a language other than English as documented by:
    a. Matriculation as an International Student from a non-English-dominant country AND providing high school transcripts from a non-English-medium high school;
    b. Completion of two consecutive semesters of the same language (other than English) at an accredited college or university, prior to matriculation at SMU but after high school graduation;
    c. Successful completion of one or more semesters of ESL WRTR.

Please visit the Second Language site for more information.

While students in their first year of college may receive credit for dual and/or transfer credit earned prior to matriculation at SMU, these credits will not satisfy SMU's Common Curriculum Foundation requirements.

Common Curriculum Breadth Requirements (maximum of 23 credits)

Students are required to complete Breath courses in seven distinct areas of university study that reflect fundamental ideas and approaches associated with core academic disciplines: Creativity and Aesthetics; Exploring Science; Historical Contexts, Literary Analysis and Interpretation; Philosophical, Religious, and Ethical Inquiry; Social and Behavioral Sciences; and Technological Advances and Society. Students may elect to take two Exploring Science classes and use the second to satisfy the Technological Advances and Society requirement. Breadth courses may satisfy Proficiency and Experiences requirements as well (see below), and many of these courses may also count for major or minor credit. The maximum of 23 credits reflects the fact that lab-based science courses may be four credits.

Creativity and Aesthetics

Students will demonstrate an understanding of the conventions of a particular art form in a specified context through production and/or analysis of that form. To develop an understanding of and appreciation for the creative impulse in a variety of artistic contexts, graduates of SMU will demonstrate an understanding of the conventions of arts forms and artistic analysis. They will be able to identify, explore and explain concepts fundamental to the visual, communicative, and performing arts through critical analysis, performance or the act of personal creation. Creativity and Aesthetics courses also seek to expose students to the fundamental role that creativity plays in maintaining a robust, adaptive and prosperous society. Students take one course from the Creativity and Aesthetics category.

Exploring Science

Students will demonstrate an ability to engage in scientific inquiry. To be active, engaged citizens in a global society, graduates of SMU will demonstrate an ability to engage in scientific inquiry. They will apply the scientific

method in order to understand and interpret scientific information in a variety of contexts. Students should be aware of the evidence-based, empirical methods of science, and of the ways that scientific fields have shaped and informed the world around us. Students take one course from the Exploring Science category.

Historical Contexts

Students will demonstrate an ability to engage in historical thinking. Historical thinking is an acquired (learned) form of analytical reasoning that allows students to analyze data from the past and recognize patterns of cause and effect, and action and consequence. It requires factual knowledge of past events and allows students to use that information to infer consequences and to understand the relationship between past action and present or future action. Moreover, because historical thinking involves a recognition that there are multiple ways of interpreting historical data, it allows for an appreciation of diverse viewpoints on any given topic. However, because it is a fact-based type of analysis, it also teaches students to evaluate arguments and critically assess sources of information. Students must take one course from the Historical Contexts category.

Literary Analysis and Interpretation

Students will be able to analyze texts through close readings, and demonstrate an understanding of the text's underlying historical, social, political, and cultural contexts, in pursuit of an individually-developed, well-argued analysis and interpretation. In order to expand their understanding of the world and the modes of communication in it, students will demonstrate an ability to analyze texts through contextualized close reading. Students will analyze meaningful texts such as novels, poems, plays, and films. Students must take one course from the Literary Analysis and Interpretation category.

Philosophical, Religious, and Ethical Inquiry

Students will demonstrate an understanding of philosophical, religious, or ethical concepts, traditions, or practices and their corresponding methods of inquiry. Philosophical and religious inquiry and ethics are related fields of analysis that invite students to explore and engage critically with the concepts, problems, traditions, and practices that constitute those fields of inquiry. These fields provide students with the tools to understand and evaluate philosophical, religious, and ethical claims, to ask pointed questions about the world, and to discover how to attend to the philosophical, religious, and/or ethical convictions or assumptions that inform diverse peoples and traditions. Beyond this, these fields all build students' analytical and communicative skills and cultivate an ability to engage in respectful dialogue. Students must take one course from the Philosophical, Religious, and Ethical Inquiry category.

Social and Behavioral Sciences

Students will demonstrate an understanding of theoretical and methodological approaches to the study of human behavior, culture, and/or institutions. Almost every challenge humankind has ever faced, or will ever face, depends on the actions of people. Whether studying why people built pyramids across the ancient world, how people decide to spend their money, why people vote for one candidate over another, why people cheat on tests, or how groups and organizations alter individual trajectories, we must understand people's behavior to answer these questions. Exploring how and why people and societies think and behave is fundamental to understanding our past, present, and future. The social and behavioral sciences provide students with the knowledge, methods, and tools to better understand individuals and societies, by advancing generalizable theories about human behavior based on empirical evidence. Undergraduate students at SMU must take one course from the Social and Behavioral Sciences category.

Technological Advances and Society

Students will describe, analyze, and evaluate the impact of technology on society within a domain. Technological changes have driven societal change since ancient times. These changes continue to accelerate in the contemporary world, creating both opportunities and challenges. Technological literacy is essential to navigating the challenges humanity faces. Technological Advances and Society courses explore how the dynamics of technological advancements impact society on almost every level and in all areas of our lives. The classes will provide students the necessary background to describe, analyze, and evaluate the effects of these technological changes. The students will see just how these advances have reshaped domains in both narrow and broad contexts Students must take one course from the Technological Advances and Society category.

Common Curriculum Graduation Proficiency and Experience Requirements (maximum of 24 credits)

To prepare SMU graduates for both career development and lifelong learning, the Common Curriculum requires all undergraduates to develop and refine a set of life skills that extend beyond the introductory level. These Proficiencies and Experiences (P&E) graduation requirements must be fulfilled by all undergraduate students and may be met through credit-bearing coursework or approved, noncredit, co-curricular activities that have been identified as meeting that requirement:

Civics and Individual Ethics

Students will demonstrate an ability to engage in ethical reasoning about civic and individual life. Moral judgments confront us everywhere. Ethical reasoning provides students foundational skills to reflect rigorously on ethical issues and to apply ethical reasoning in civic and individual life. It allows students to identify their own ethical convictions, think self-critically about them, and reflect on their merits. This is a key component of a liberal arts education. Undergraduates at SMU are required to take one course or participate in one, approved, sustained experience that requires them to reflect meaningfully on the nature of what is right, wrong, moral, immoral,

Community Engagement

Students will demonstrate the combination of knowledge, skills, values, and motivation necessary to contribute to the civic life of communities. Undergraduate students at SMU are required to complete one approved community engagement activity, through a course, a cultivated experience, or, with approval, on their own. Community engagement encompasses actions wherein individuals participate in activities of personal and public concern that are both individually life enriching and socially beneficial to the community; it prepares students for their public lives as citizens, members of communities, and professionals in society. Through the process of community engagement, students gain experience participating in multiple types of civic action and skills, and they are given the opportunity to integrate their academic learning with direct action and involvement. In this way, students develop collaborative skills and enhanced perspectives that will serve them throughout their lives. Matriculated students seeking to fulfill Community Engagement through an independent activity must obtain the approval of the Office of General Education prior to starting their service activity.

Global Perspectives

Students will demonstrate an informed perspective on the challenges contemporary societies face in the broader global context. Effective and transformative global learning gives students an ability to analyze and explore complex global challenges, collaborate respectfully with diverse others, apply learning to take responsible action in contemporary global contexts, and evaluate the goals, methods, and consequences of that action. Global learning enhances students' sense of identity, community, and perspective taking. The Global Perspectives requirement challenges students to participate in a reflective way by partaking in activities outside or inside the classroom or by engaging intellectually with cultures outside the U.S. or in immigrant communities inside the U.S. This requirement may be satisfied by participating in an SMU Abroad program.

Human Diversity

Students will demonstrate an understanding of human diversity and the systems of structural inequality that shape human experiences and behaviors. Understanding human diversity gives students the ability to navigate and appreciate the realities of diverse communities and nations that exist in a multi-faceted world. Cultivating this understanding requires knowledge of a variety of cultures, subcultures, and social systems, in local, regional, national and global contexts. Courses and experiences that fulfill the Human Diversity requirement help students to better understand the factors that contribute to individual identity as well as the environmental and historical circumstances in which social and cultural systems and provide students with insights into the ways in which inequalities are created, enacted and upheld.

Oral Communication

Students will demonstrate an ability to engage in clear and concise live communication. Oral communication consists of both extemporaneous and prepared communication, and it is intended to increase knowledge, to foster understanding, or to promote change in the listeners' attitudes, values, beliefs, or behaviors. Oral communication is fundamental to individual, professional, and social growth. It enables the free expression and exchange of ideas, allowing individuals, organizations, and communities to understand and learn from one another through expression.

SMU undergraduate students are required to develop their oral communication skills through substantial activities, inside or outside the classroom.

Quantitative Applications

Students will demonstrate an ability to interpret mathematical models in the form of formulas, graphs, and/or tables and draw inferences from them in a specified domain. SMU undergraduate students are required to participate in Quantitative Applications courses and experiences that provide students the ability to use and apply the tools of mathematical and/or statistical analysis to a wide range of subject areas. Students use information to solve problems in disciplines ranging from the Sciences and Engineering, Business to the Social Sciences and Humanities. These courses and experiences promote numeracy and data literacy as skills that enhance the understanding of any topic or subject.

Writing

Students will demonstrate university-level writing proficiencies appropriate to their coursework. We write not only to communicate what we know, but to understand ourselves better, to comprehend our world more fully, and to discover what we think. The ability to write well promotes success in college regardless of major; after college it enhances success in any field that involves sustained thought. Being able to write well is the mark of an educated person. But writing well is a skill that takes time to develop and requires practice. The Writing Proficiency or Experience requirement gives students further opportunities to practice what they have learned in the first-year Writing and Reasoning sequence (WRTR 1312 and WRTR 1313) and to advance their skills.

Writing in the Major

Students will demonstrate university-level writing and critical reasoning proficiencies in the discipline of their undergraduate majors. Majors vary widely: a major may be primarily practical, speculative, empirical, interpretive, creative, or some mixture, depending on the discipline(s) from which it draws. Learning to write well in a major means learning to understand the ways of thinking characteristic of its discipline, as well as the specialized vocabulary and idiom used by its scholars and professionals. It also means engaging critically, in writing, with what scholars or professionals in the field have written; or offering one's own knowledge, informed by work in a discipline, according to the conventions of that discipline; or conveying highly specialized knowledge in language a non-specialist can understand. SMU undergraduates are required to participate in one course or experience that builds their writing skills and develops their ability to write to the standards of their professional field or academic discipline.

Co-Curricular Fulfillment of Proficiency and Experience Graduation Requirements

Students may elect to fulfill the Proficiency and Experience graduation requirements through co-curricular activities. A list of pre-approved activities is available on the Common Curriculum website. Students may request, through petition, to fulfill these requirements through other activities by submitting a formal request to the Office of General Education using a form available on the Common Curriculum website. Please note, matriculated students wishing to use a non-approved activity must obtain approval from the Office of General Education prior to starting the activity.

Common Curriculum Protocols

1. Credit earned by examination may be used to fulfill the Second Language and Quantitative Reasoning Foundation requirements, as well as up to three of the required Breadth requirements, in accordance with the university's Credit by Exam policies.
2. Following SMU matriculation, students must meet Writing and Reasoning, Quantitative Reasoning, and the Second Language Foundations requirements through SMU coursework.
3. Pre-matriculation transfer work may, in some cases, be used to satisfy the Writing and Reasoning, Quantitative Reasoning, and the Second Language Foundations. Students should consult the Office of General Education for details. Coursework completed through dual-enrollment coursework while in high school may not be used to satisfy Breadth or Foundation requirements.
4. Students must satisfy at least four Breadth requirements through SMU coursework. Only SMU courses approved by the Council on General Education to satisfy Breadth requirements may be used to fulfill these requirements. Students may satisfy up to three Breadth requirements with any combination of pre-matriculation transfer credit, credit by exam, post-matriculation transfer work. Students seeking to fulfill

Breadth requirements through pre- or post-matriculation transfer work must complete the appropriate academic petitions (located in the Registrar's forms library). Coursework completed through dual-enrollment coursework while in high school may not be used to satisfy Breadth requirements. Students who matriculate at SMU after completing at least 24 credit hours at another accredited institution following high school graduation may be subject to different limits and should consult their advisor for details.

5. For ES courses, if the lecture course has an associated lab, students must take both the lecture and lab courses, and pass both to fulfill the ES requirement.
6. A minimum grade of *C-* is required in all WRTR-sequence courses, and students must be enrolled in and may not drop Writing and Reasoning until they have completed the WRTR requirement.
7. Students may request the transfer of coursework taken at another regionally accredited institution after high school graduation either prior to or after matriculation at SMU. Students may further request that such transferred coursework be evaluated for fulfillment of certain CC requirements, subject to the limits described above. All CC student requests for fulfillment through transfer work must include a complete syllabus and concrete evidence that the proposed alternative course or experience satisfies the specific Student Learning Outcomes and Content Criteria associated with the CC requirement being petitioned. These requests will be reviewed and evaluated by the Assistant Provost for General Education. Appeals of decisions by the Assistant Provost for General Education may be made to the Committee on Academic Petitions.
8. Students may not request that non-approved SMU courses be allowed to satisfy CC Foundation or Breadth requirements. Only courses proposed by an SMU faculty member and approved by the Council on General Education may be used to satisfy these requirements.

Courses taken to fulfill CC requirements may not be taken pass/fail. SMU faculty, through the Council on General Education, are responsible for determining whether SMU courses meet Foundation, Breadth and Proficiency and Experience requirements.

University Honors Program

Honors Programs

www.smu.edu/univhonors

The University offers a variety of honors and distinction programs to encourage research and creative scholarship among its best students.

The University Honors Program, the largest of these programs, is open to students in all majors and designed to prepare high performing students to meet the challenges of rapid change and take advantage of the possibilities this dynamic world presents. To this end, the program emphasizes the values of a liberal arts education, namely, the ability to read, write and think critically, and the acquisition of a basic under-standing of human society in all its dimensions. Along with these objectives, the program provides exceptional opportunities for international study and the exploration of topics across disciplines.

The University Honors Program focuses on Common Curriculum courses taken over the course of a student's career at SMU. Students begin with a two-term, first-year honors humanities seminar that encourages critical reflection about major concepts and works of literature that have shaped the modern world. Classes are small (15 or fewer students), with students in several honors sections occasionally meeting together as a larger group. Designed to be broad and introductory, and drawing on material from the past and present, the course offerings explore the way different disciplines raise questions and construct knowledge about the human experience.

In addition to the first-year honors humanities sequence of WRTR 2305 and WRTR 2306, students also take at least four honors seminars (general education Breadth courses, or special one credit Honors seminars available in the sophomore, junior, and senior years) from among the honors offerings.

The final requirement is for the Senior Culminating Project – designed to draw the student out of the classroom and into the larger society – applying the knowledge learned to the outside world. There are many possibilities for this project, including the senior thesis in the major (see below), a Richter Fellowship, an Engaged Learning project or fellowship or other research fellowship, as well as certain internships.

The University Honors Program creates an intellectual community of students and faculty that extends beyond the classroom. Beginning with several orientation activities, special events throughout the year provide additional occasions for coming together. Honors students and faculty are encouraged to attend dinners, programs, seminars and book discussions that may be organized around scholars, artists or other distinguished visitors to the campus. Honors students benefit, too, from the sense of solidarity and community found in a campus venue dedicated to bringing together students in all University honor and scholar programs, the Scholars' Den. The program also takes advantage of the Dallas/Fort Worth Metroplex. Visits to museums, studios, theatres and live-music venues allow students to experience the myriad opportunities for learning that only a large urban center can provide. At the same time, the University Honors Program at SMU is not segregated from the campus. Honors students interact with their fellow students in nonhonors classes; in the Residential Commons; in the student center; on the playing fields; and in the numerous student governing, social, pre-professional, political, cultural and social organizations that enhance student life at SMU.

Entrance to the University Honors Program is by invitation prior to matriculation or by application after at least one term of coursework at SMU. At the end of their undergraduate years, students who maintain a 3.000 GPA in their honors courses and at least a 3.300 overall GPA receive a diploma inscribed with the designation "Honors in the Liberal Arts." More information about the University Honors Program is available on the website (www.smu.edu/univhonors) or from the director, Dr. David D. Doyle, Jr. (ddoyle@smu.edu).

The Richter Research Fellowship Program provides funding for undergraduates to travel and conduct independent research under a faculty adviser's supervision. All honors students who have completed their second year are eligible to apply. Often this research work is connected to a student's senior honors capstone or distinction project, although that is not a requirement to apply for the fellowship. Richter projects have included researching literacy in Ghana, education for non-native English speaking children in rural California, environment/government

correlation in Fiji and women's reproductive health in Ethiopia. The Richter Fellowships are available only to those students who are members of the University Honors Program.

Department and Division Honors. In addition to the University Honors Program, individual schools, departments and divisions of the University offer honors or distinction programs to exceptional students in their upperclass years. The strongest SMU students are encouraged to participate in honors programs at both the University level (the University Honors Program) and the departmental level. Depending on the major, students take a series of honors courses and seminars in their departments or divisions. Many departments and divisions also offer internships and re-search programs to upperclass students majoring in their fields. Such activities provide practical experience and specialized training within the major. Students completing honors or distinction programs within their departments or divisions graduate with an "Honors in" designation specific to their department or division. More information on these programs can be found under the individual department and division listings in this catalog.

The following is a list of schools with honors programs and departments that offer honors within the major, with a general overview of the programs:

Dedman College	
Anthropology	Significant independent research paper.
Biochemistry	Independent reading, research and a senior thesis.
Biological Sciences	Independent reading, research and a senior thesis.
Chemistry	Independent research project and a senior thesis.
Economics	Rigorous independent project under the direction of a faculty sponsor.
English	ENGL 4397, followed by either an independent study in which the student writes a senior thesis or a graduate seminar, and a minimum of 36 credit hours in the major.
History	Major research project and thesis, and an oral defense before a faculty committee.
International and Area Studies	Senior thesis and an oral exam on the topic of the thesis.
Markets and Culture	SOCI 4396, distinction thesis and oral exam by faculty.
Medieval Studies	Distinction paper (with original research), an oral exam or a review by a distinction committee.
Philosophy	Substantial writing project under the guidance of a department faculty member.
Physics	Independent reading, research and a senior thesis (under the direction of a department faculty member) that will be presented to a faculty committee.
Political Science	Distinction thesis, oral exam and two advanced courses related to the topic of the thesis.
Psychology	Distinction courses and an independent research study (under the direction of a faculty mentor) submitted for conference presentation or publication.
Religious Studies	Directed research tutorial followed by an independent studies course and a senior thesis.
Sociology	Original research (based on a topic covered in a 3000- or 4000-level course) and a journal-length article written under the supervision of a departmental faculty member, who then determines if distinction is to be awarded.
World Languages	Two extra courses beyond the major requirements; at least one must include a major research paper.
Cox School of Business	
BBA Honors Program	18 credit hours of business honors courses (12 credit hours at the junior/senior level) with a 3.500 business honors GPA.
Lyle School of Engineering	
Computer Science and Engineering Electrical Engineering	Successful completion of a senior thesis course, independent research project approved by the academic adviser, defense of the thesis through a public

	presentation and oral examination before a faculty committee, and a 3.500 major GPA.
Meadows School of the Arts	
Art History	Honors thesis, defended before a committee.
Corporate Communication and Public Affairs	Honors thesis and 6 credit hours of COMM honors courses.
Film and Media Arts	Thesis project.
Journalism	Honors thesis and 6 credit hours of honors journalism courses.
Simmons School of Education and Human Development	
Applied Physiology, Sport Management and Wellness	Departmental distinction programs: Applied Physiology and Health Management Specialization: Departmental Distinction Applied Physiology and Health Management Specialization: Departmental Honors Sport Management Concentration: Departmental Distinction Sport Performance Leadership Concentration: Departmental Distinction
Teaching and Learning	Educational studies majors: Departmental distinction project. Outstanding Pre-Service Educator Teacher Scholar Award

Educational Facilities and Services

Student Academic Success Programs

Vital components of the Student Academic Success Programs team are located in the Altshuler Learning Enhancement Center (A-LEC). Various staff are devoted to helping students become more interdependent, self-confident and efficient learners. Their mission is to help students respond effectively to specific academic challenges, to articulate and attain their own educational goals, and to succeed at any level of the undergraduate curriculum. Each year, about one third of SMU's undergraduate students participate in A-LEC programs, courses and services, including more than half of first and second year students. All A-LEC services are available to undergraduate students at no cost. Some services are available on a drop-in basis and others are available by appointment. Students may be referred to the A-LEC by their advisers, faculty or a resident assistant, but most students choose to come on their own. More information is available online at www.smu.edu/sasp.

Academic Counseling. Full-time staff members are available to work individually with students on study strategies. Some specialize in working with students with learning differences or students on academic probation.

Tutoring Services. The A-LEC offers subject-specific tutoring in most first- and second-year courses. Tutorials are offered in individual, small-group and review session formats. The tutoring schedule changes regularly and updates can be found on the A-LEC website.

Writing Center. English department faculty members assist undergraduate students at any stage of the writing process, from planning a draft to learning from previously graded papers. Faculty assist with all undergraduate writing assignments, from DISC through applications to graduate school. There are faculty who work specifically with students where English is not their first language.

Workshops. The A-LEC offers about 40 study strategy workshops each semester. Among the topics covered are note-taking, time management, test-taking strategies, textbook study reading, motivation and stress management.

HDEV 1110 - Academic Success and Personal Development Each academic year, hundreds of SMU students take HDEV 1110 to develop their advanced reading and learning skills. Every fall, some sections are reserved for prehealth students, transfer students and students with documented learning differences. Students can register for HDEV 1110 at the same time they register for their other courses.

HDEV 1211 - Success Strategies This course helps students develop strategies for creating success in their academic, professional and personal lives. Students engage in ongoing self-assessment and journal writing, learn study skills, and explore campus resources. The course is designed for students on academic probation and for those who are dissatisfied with their grades. Students can register for HDEV 1211 at the same time they register for their other courses.

Disability Accommodations and Success Strategies. DASS offers any qualifying SMU student with a disability comprehensive support services, including classroom accommodations. DASS assists with physical accessibility issues, referrals, and housing/dining accommodations for many conditions such as physical, visual or hearing disabilities and medical or psychiatric disorders. For undergraduate students with a learning disability and/or attention-deficit/hyperactivity disorder, academic coaching with DASS learning specialists is available in the areas of transitioning, learning strategies, educational planning and self-advocacy. All services are at no cost to the student. More information on the accommodations process and DASS resources is available online at www.smu.edu/sasp/dass.

Student Persistence and Achievement (SPA). The newest academic support area is located in the Academic Center for Excellence (ACE). In partnership with Student Affairs, the staff in ACE recognize that everyone comes to college with different educational experiences. Programs and academic counselors in ACE focus on those who identify as first-generation college students, may need assistance in adjusting to an urban city, or seek assistance in fully utilizing campus resources, be they academic, financial, or social. SPA plans and implements intentional programing and provides mentorship to students to support their academic pursuits. The staff partners with many

campus departments to assist new students in their academic pursuits. More information is available online at www.smu.edu/spa.

SMU Libraries

www.smu.edu/libraries

SMU Libraries are one of the greatest assets of the University, and comprise the largest private research library system in Texas, ranking third in the state with over four million volumes. Support for research and teaching for SMU students, faculty and staff is the primary goal of all libraries at SMU. The University's library system is comprised of six libraries on the main campus and one library in Taos, NM.

1. Fondren Library
2. Hamon Arts Library
3. DeGolyer Library
4. Underwood Law Library
5. Bridwell Library
6. Business Library
7. Fort Burgwin Library

Fondren Library

Fondren Library is the main library on campus and serves students, faculty and staff in the areas of humanities, social sciences, business, education, science, and engineering, with over three million print and online resources. Subject librarians assigned to each discipline offer personal research services to students and faculty to support teaching and learning. Subject librarians collaborate with faculty to integrate information literacy concepts into university curriculum to support the academic mission of the university. Within Fondren Library, students have access to 1,000 seats of study space, including bookable study rooms and conference rooms with supportive learning technology. The Caren Prothro Learning Commons and nearby Collaborative Commons provide both individual and collaborative group spaces conducive to creative work, as well as a Starbucks café and the IT Help Desk to provide technical assistance to the University community. For quiet study, the Fondren Foundation Centennial Reading Room is a beautiful setting with vaulted ceilings and handmade wooden tables with reading lamps in a large sunlit space. The bold visual impact of this iconic reading room epitomizes the discovery, inspiration and community for which SMU is known. In addition to physical spaces, Fondren Library also manages the SMU Digital Repository, called SMU Scholar, which houses the scholarly output of the SMU faculty and graduate students. To support the research of the university, Fondren Library provides document delivery, as well as access to holdings from other libraries via interlibrary loan. Strengths of the Fondren Library collections include, 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.

The Norwick Center for Digital Solutions (nCDS), located in Fondren Library, focuses on digitizing collections of rare photographs, manuscripts, imprints, art work, film, musical recordings, and other unique items for increased access via the Digital Collections website. nCDS serves as a teaching lab, with digital collections development and Digital Humanities practicums available to students.

Hamon Arts Library

The **Hamon Arts Library**, adjoining the south side of the Owen Arts Center of the Meadows School of the Arts, provides resources for the study of art history, communications, dance, film, music, theatre and visual art. With nearly 250,000 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. Two special collections units are administered by Hamon Arts Library:

> The **Jerry Bywaters Special Collections** focus 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 7th 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, in all types of formats. The Jones Collection is best known for its Tyler, Texas, Black Film Collection, WFAA newsreel collection, and for the Sulphur Springs Collection of pre-nickelodeon films.

DeGoyler Library

DeGolyer Library is a noncirculating special collections library that contains more than 170,000 volumes. In addition to rare books, the DeGoyler Library holds nearly 2,500 separate manuscript collections, nearly 1.5 million photographs and negatives, 2,000 newspaper and periodical titles, 3,000 maps, and an extensive collection of printed ephemera. Subject strengths include the American West, Mexico, railroad history, business history, and the history of science and technology.

The **University Archives**, part of the DeGolyer Library, are 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.

Underwood Law Library

Underwood Law Library is the largest private academic law library west of the Mississippi River. Its collections include more than 665,000 law-related volumes and equivalents, ranking the library among the top 20% of law libraries in the United States. The library's building is the fifth largest academic law library in the country. The subject area strengths of the library's collections mirror the Law School's curriculum and faculty research concentrations: corporate law, commercial and banking law, constitutional law, criminal law, air and space law, intellectual property law, international law, law and medicine, legal ethics, securities, and taxation. The library's collection of antiquarian law books, including the McKnight Antiquarian Book Collection, is one of the leading collections of its kind in North America, with volumes printed as early as 1473. The library has more than 700 seats and 14 group study rooms.

Bridwell Library

Bridwell Library, primarily serving the faculty and students of the Perkins School of Theology, is the University's principal research resource for the fields of theology and religious studies. It offers a print collection of nearly 400,000 volumes and more than 1,000 journals, and it provides access to a wide array of digital books, 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 through class instruction, lectures, publications and exhibitions. Reference librarians are available to help students discover and use the many resources of Bridwell Library.

Business Library

The Business Library of the Cox School of Business is located in room 150 of the Maguire Building. This library is open to all students regardless of major. The mission of the 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 Business Library includes the Kitt Investing and Trading Center, quiet and group study areas, 70 computer workstations in individual and group areas, a multimedia studio, a group presentation practice room, a periodicals area, facility wide wireless access, more than 400 electronic resources, the Hillcrest Foundation International Resource Library, the Edwin L. Cox Business Leadership Center Resource Collection, the Maguire

Energy Institute Resource Collection and the Cox Career Services Collection. Librarians are available all hours that the business library is open, providing research assistance both in person and virtually.

Fort Burgwin Library

The Fort Burgwin Library, located in Taos, New Mexico, serves students and faculty in the SMU-in-Taos program. It is focused on the history, literature, cultures and environment of New Mexico and the Southwest. The library, constructed in 2004, contains approximately 9,000 books and a small collection of journals and maps, and houses the Fred Wendorf Information Commons and a computer lab.

Scholars' Den

The Scholars' Den is a gathering space for members of the various scholar groups at SMU. Its mission is to foster scholarship and community among its member groups by providing a hospitable place to study and hold scholarly events. Located in Clements Hall, the Scholars' Den features group-meeting space, study areas, a kitchen/dining area and an informal lounge where students can gather to collaborate on academic and extracurricular projects. Additional information can be found by navigating to www.smu.edu/scholarsden.

Laboratories and Research Facilities

The University provides laboratories and equipment for courses in accounting, advertising, anthropology, art, biology, chemistry, communication studies, creative computation, languages, Earth sciences, film and media studies, journalism, psychology, physics, health and physical education, dance, music, theatre, and statistics, as well as civil, computer, electrical, environmental and mechanical engineering. The University is also home to a number of centers and institutes that are detailed in each of the school sections of this catalog. University facilities not listed below are described in sections for the individual schools.

ManeFrame II. SMU has one of the top supercomputers in the nation, ManeFrame II, which is capable of more than 625 trillion mathematical operations per second. Housed in the data center, ManeFrame II is available for faculty and student research in subjects ranging from particle physics to human behavior, water quality and drug discovery.

SMU-in-Taos. SMU-in-Taos, Fort Burgwin, is located 10 miles south of Taos, New Mexico. 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 1 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.

Meadows Museum

The **Meadows Museum**, founded by the late philanthropist Algur H. Meadows and located on campus at 5900 Bishop Boulevard, houses one of the finest and most comprehensive collections of Spanish art in the world, as well as selected masterpieces of modern European sculpture, from Rodin and Maillol to David Smith and Claes Oldenburg. The permanent collection of the museum numbers more than 3,500 objects, including 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, Dalí, and Miró. The Meadows Museum hosts a regular program of loan exhibitions each year in its exhibition galleries, and it sponsors an active program of public lectures, tours, films, concerts and symposia, as well as access programs, 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 has a museum shop on site as well as special event rooms. Additional information is available at www.meadowsmuseumdallas.org.

Office of Information Technology

The Office of Information Technology (OIT) provides computing, information processing, and communications resources to satisfy the needs of faculty, students, and staff. These services include an SMU email account, access to

enrollment and financial data online, Internet access, 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 (PerunaNet) also extends throughout the campus in classrooms, libraries, common areas, and several outdoor locations. In addition to on-campus Internet connections, OIT provides off-campus access to resources via a virtual private network connection (VPN) and access to other research institutions' Wi-Fi networks through eduroam.

All students receive an SMU email account, which will remain active after graduation. The email account may be accessed online via Office 365 (office365.smu.edu). Students also have access to a variety of Web-based services such as my.SMU, personal blog space (people.smu.edu), unlimited cloud storage space (smu.edu/box), and the Canvas Learning Management System (smu.edu/canvas). Academic information, including grade history, financial information, and class registration, is available through the my.SMU system.

OIT also provides complimentary on-campus IT support. Located in Fondren Library West, the IT Help Desk provides technical assistance for most common computing issues and installs of software applications pertinent to course instruction weekdays and weekends during the regular semester. Times will vary for breaks and summer. Please check the website at smu.edu/oit for the latest hours. The IT Help Desk provides support via phone at 214-768-HELP or in-house for a wide variety of technical questions related to networking, software installs, and the use of SMU IT resources. The OIT website (smu.edu/oit) provides information, step-by-step instructions, and answers to many frequently asked questions. Training On-Demand is also available through LinkedIn Learning (smu.edu/LinkedIn) for additional software.

Although most students have a personal laptop, SMU provides a number of public computer labs. Typically, the labs contain both Mac and PC workstations and support a variety of applications. Printing is also available through our PaperCut Pay-for-Print System (smu.edu/printing). If needing to purchase a personal copy of software, discounts on software and computer hardware purchases are available throughout the year. More information can be found on the OIT website at smu.edu/oit.

For additional information on services provided by OIT, students should visit www.smu.edu/oit or call the IT Help Desk at 214-768-HELP (4357). SMU related technology news and updates are available on Twitter (@smuoit) and the IT Connect blog (blog.smu.edu/itconnect).

Educational Programs

Academic Programs

SMU offers degrees in five undergraduate and graduate schools and three graduate professional schools: the Dedman College of Humanities and Sciences, the Edwin L. Cox School of Business, the Dedman School of Law, the Linda and Mitch Hart SMU Guildhall, the Bobby B. Lyle School of Engineering, the Algur H. Meadows School of the Arts, the Joe and Lois Perkins School of Theology, and the Annette Caldwell Simmons School of Education and Human Development. SMU's Ph.D. and online degrees are jointly offered in the Moody School of Graduate and Advanced Studies, which coordinates graduate education across the University. The University offers a range of distinguished graduate and professional programs, and since its beginnings in 1915, SMU has remained committed to the concept of a rigorous and relevant liberal arts undergraduate education. All SMU undergraduate degree programs reflect this commitment by encouraging students to combine broad, interdisciplinary inquiry with in-depth study in a particular field of interest.

Preface to the Curriculum

All SMU undergraduates participate in general education. General education provides students with a broad background in the liberal arts, which is essential to their growth as educated human beings. The general education curriculum is designed to help students put their majors into context, to promote valuable skills that students acquire in and outside the classroom in preparation for the modern workplace, to enable and encourage students to engage in their civic responsibilities at the university and beyond, and to create a passion and platform for life-long learning. The elements of general education are foundation, breadth, depth and co-curricular proficiency requirements. These elements are designed to build on one another over the four-year undergraduate experience. Students begin in foundations with a focus on writing, quantitative foundations, second language proficiency, wellness, and ways of knowing. The latter exposes students to interdisciplinary problem-solving by providing multiple, intellectual lenses through which to view a particular problem or issue, while comparing the strengths and weaknesses of these approaches. The breadth requirements, typically met in the first two years, provide students an opportunity to explore a variety of disciplinary frameworks for learning. Depth requirements, often met in the major, enable students to apply what they learn in breadth courses to an area of focus. Finally, during their time at SMU, students gain a set of skills that are recognized through the co-curricular proficiency requirements. These include writing in the discipline, oral communication, diversity of and engagement in the human experience, and information literacy. Thus, general education is an integral part of students' learning and growth as they work toward graduating with a major or majors.

SMU undergraduate students choose curricula from over 100 baccalaureate degrees in more than 90 subject areas offered by the five undergraduate schools.

Baccalaureate Degree Programs

Dedman College of Humanities and Sciences
Bachelor of Arts
Bachelor of Science

Cox School of Business
Bachelor of Business Administration

Lyle School of Engineering
Bachelor of Arts
Bachelor of Science
Bachelor of Science in Civil Engineering
Bachelor of Science in Computer Engineering
Bachelor of Science in Electrical Engineering
Bachelor of Science in Environmental Engineering
Bachelor of Science in Mechanical Engineering

Meadows School of the Arts
Bachelor of Arts
Bachelor of Fine Arts
Bachelor of Music

Simmons School of Education and Human Development
Bachelor of Science

For the degrees available in specific fields of study, students should consult the appropriate school's section in this catalog.

Engaged Learning: Research and Entrepreneurship Programs

www.smu.edu/engagedlearning
www.smu.edu/Provost/Engagedlearning
Over the last decade, the Office of Engaged Learning has developed and refined experiential education opportunities for SMU students through a cluster of research and entrepreneurship initiatives built on a cycle of action, reflection, and implementation. These include: our signature, capstone-level Engaged Learning Fellowships for research; faculty Undergraduate Research Assistantships; social entrepreneurship and leadership development through the Clinton Global Initiative University; Big iDeas entrepreneurship initiatives; the new Incubator@SMU for building entrepreneurship ventures; and for mentoring cross-campus, Mustang Mentors. Those who participate in our programs cultivate professional and scholarly skills related to their chosen fields of pursuit and gain significant experiences outside of the classroom.

Undergraduate Research:

The Office of Engaged Learning's **Undergraduate Research Assistantships (URA) and the new Summer Research Intensive (SRI)** provide research opportunities for students in all disciplines. Students work side-by-side with faculty mentors, for whom the Office of Engaged Learning provides matching funds to a department, school, or research grants. This office also matches SMU scholarship awards, including the Hamilton and McNair, and provides start-up funding to innovative developments in areas where there is high student interest and fewer resources for recent faculty research endeavors in areas such as digital humanities, oral history, and sustainability.

Undergraduate research programs have supported thousands of students across the university, from their first year to their last. Student researchers have achieved numerous scholarly milestones, including conference presentations, national journal publications, and SMU's own Journal of Undergraduate Research https://scholar.smu.edu/jour/

For more information about SMU's Undergraduate Research programs please visit https://www.smu.edu/Provost/EngagedLearning/Undergraduate-Research or contact our team at engagedlearning@smu.edu.

Engaged Learning Fellowships:

Through the Engaged Learning Fellowship (ELF) program, undergraduate students convert their academic passions into research projects of their own. **Students engage in capstone-level scholarly research, community service or civic engagement, professional internships or other creative projects.** SMU funds ELFs up to $2000 per project and records ELF titles on student transcripts and in commencement booklets.

Students apply during the fall and spring application cycles, and with the support of their mentors, they work on projects throughout the year and, before graduation, present their findings at the Engaged Learning Symposium in the fall or Research Days in the spring. Students submit publication-ready project reports prior to graduation. The Office of Engaged Learning provides structure, coaching, and guidance throughout.

For more information about the Engaged Learning Fellowship, see https://www.smu.edu/Provost/EngagedLearning/Engaged-Learning-Fellowship or contact our team at engagedlearning@smu.edu.

Big Ideas and Incubator@SMU:

Big iDeas at SMU supports entrepreneurship training and experience that fuels innovation. All undergraduates are invited to ignite their passions for starting a business, building a foundation, designing a product, or providing a service through the Big iDeas program. The entire SMU and wider Dallas communities are invited to participate in programming, networking, and organizational development opportunities at the Incubator@SMU.

Opportunities for undergraduates with Big iDeas:

- Big iDeas Pitch Competition (fall): students pitch ideas to make something new, and winners receive $1000 to turn their ideas into prototypes
- Big iDeas Demo Day Fair (spring): students showcase their work
- Big iDeas Business Plan Competition (spring): During Demo Day students can also compete for $5000 in seed money to accelerate their Big Idea
- All Big iDeas winners gain access to the Incubator@SMU

Throughout the year, Big iDeas contests winners receive outstanding support from the Big iDeas team and resources provided to them at the SMU Incubator including access to talented entrepreneurs through Mustang Mentors, professional development and co-working office space. Big iDeas and the team at the Incubator@SMU also connect participants with entrepreneurship mentors, both on and off campus, and expose them to the abundance of resources available in the Dallas-Fort Worth entrepreneurship ecosystem.

The Incubator@SMU is also available to staff, faculty, and alumni building entrepreneurial through a competitive application process. All resources in the space area available to select members.

More information about Big iDeas programs are available on the SMU website at www.smu.edu/bigideas and https://blog.smu.edu/incubator/ or contact our team at bigideas@smu.edu.

Clinton Global Initiative University

SMU is a member of the Clinton Global Initiative University Network (CGIU), a year-round leadership development program, where students collaborate and learn from a network of alumni and leaders from business, government, academia, and civil society. Students develop their own Commitments to Action-new, specific, and measurable projects to address pressing challenges in their communities related to education, environment, health, human rights and poverty alleviation. The year-round curriculum culminates with CGIU's annual meeting.

The Office of Engaged Learning provides up to $1500 for six undergraduate and graduate students selected by CGIU for their projects and for attendance at a yearly meeting that brings together hundreds of young leaders from all over the world.

For more information about CGIU see https://www.smu.edu/Provost/EngagedLearning/CGIU or contact us directly at engagedlearning@smu.edu.

Mustang Mentors

Having at least one mentor while at SMU is one of the most rewarding opportunities a student can experience. From being encouraged and empowered; having support for career goals; building skills; to gaining confidence as a scholar, the Mustang Mentor program allows students to work with faculty, alumni or even peers. Sign up as soon as you get your student ID, complete your profile, and begin finding people who will take interest in you and support your journey through SMU.

Academic Advising for SMU Pre-Majors

Through the University Advising Center, every student entering SMU as a first-year or premajor transfer student collaborates with a professional academic adviser. Advisers help students acquire the skills to plan their majors and minors, schedule courses, and resolve academic problems that may arise. Computerized Degree Progress Reports provide students with detailed information concerning completion of degree requirements. The Advising Center, which is located on the fourth floor of the Blanton Student Services Building, has received national recognition for its innovative programs and outstanding staff.

Academic Advising for Majors

After completing 24 credit hours and meeting other program admission requirements, students may be eligible to declare their major and transfer their records to an adviser in the school that houses their major field of study. Those who elect study in the humanities, sciences or social sciences enter Dedman College of Humanities and Sciences. Others, depending on their qualifications and interests, may enter the Cox School of Business, Lyle School of Engineering, Meadows School of the Arts, or Simmons School of Education and Human Development. The University requires students to qualify for and declare a major upon completion of 75 credit hours, including credit by examination and transfer work. Upon declaration of a major in one of the schools, students work with a major adviser in that school.

English as a Second Language Program

https://www.smu.edu/Dedman/Resources/Students/ESL

Students whose first language is not English may encounter special challenges as they strive to function efficiently and succeed in less familiar cultural and academic settings. Dedman College offers the following ESL courses to students from all schools and departments of SMU. Some courses are dedicated to non-SMU affiliated students for academic readiness and professional success.

Students may apply on the ESL website. More information about the ESL Program is available on the website or contact the program at eslcourse@smu.edu.

Non-Credit ESL Courses for SMU Students

These courses are free of charge, non-credit bearing, and students receive a Pass or Fail on their transcript according to whether or not these requirements are successfully fulfilled. ESL program approval is required by submitting an online application.

ESL 1001/1002 (0). ESL Communication Skills I/II

The goal of these courses is to improve ESL students' interactive skills, primarily oral/aural (speaking, listening, giving presentations) while gaining a deeper understanding of American culture, customs, attitudes, and idiomatic usage of the language. These courses also focus on assisting students to improve advanced ESL speakers' pronunciation for effective and successful communication in academic settings. Students will gain awareness of their own weaknesses in pronunciation and with the instructor develop strategies and exercises to improve overall communication skills. Students will learn to recognize and use English intonation, rhythm, syllable stress, focus words, thought groups, vowel and consonant sounds, linking, and other speaking features. Building on skills developed in ESL 1001, ESL 1002 is intended to help students participate more fully in everyday American life, both inside and outside the classroom. ESL 1001 is recommended as a precursor but is not a prerequisite.

ESL 3001/3002 (0). Advanced Academic Writing I/II

The goal of these courses is to help students explore and practice writing skills critical to their particular field of specialization. Academic texts are used as a basis for out-of-class writing assignments and a final research project. Most classes will be devoted to the presentation and discussion of key academic writing styles, with some class time set aside for writing workshops and one-on-one tutorials. Building on principles of grammar and style covered in ESL 3001, ESL 3002 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.

ESL 6001/6002 (0). Seminar for International Teaching Assistants (ITAs)

The goal of these courses is to help students develop pedagogical skills as related to ITAs' professional environment to be successful and effective with cross-cultural communication in university class setting. Based on communication and language skills developed in ESL 6001, ESL 6002 will implement case study approaches, exploring experiential training with presentation skills, teaching techniques, and classroom management. These courses are limited to SMU graduate students and visiting scholars.

Intensive English Program (IEP) Courses for Non-SMU Students

Enrollment in the IEP courses is open to students and professionals, who are not matriculated into a degree program at SMU or other U.S. universities. IEP courses are also open to conditionally admitted students who need to improve

their English proficiency to fulfill full admission requirement set by an Undergraduate or Graduate program at SMU. For international students, appropriate immigration status is required. Once accepted, students are assigned to one of the six IEP levels based on an English proficiency test score: Beginning, Upper Beginning, Lower Intermediate, Intermediate, Upper Intermediate, and Advanced. IEP courses are offered year-round (Fall/Spring/May & Summer-12 weeks of study per term). The Intensive English Program runs with its own academic calendar, different from the SMU academic calendar. IEP tuition & fees rates are charged. For more information, contact the program at iep@smu.edu.

ESL 20XX (0). Intensive English Program
All 2000-level courses are non-credit bearing and exclusive to Intensive English Program. These courses are designed to prepare students, scholars, and professionals for the purposes such as (1) to meet the language requirement for full admission to a degree program at SMU (2) to be eligible for admission to other US universities, or (3) to improve written and oral English skills in professional settings. The main components of the IEP courses consist of integrated skills of English for academic purposes, English proficiency test preparation, and multi-cultural competencies for successful communication with people from diverse backgrounds of culture, language, religion, and education.

Conversation Buddy Program
At the beginning of each term, all students are notified via campus email of the opportunity to practice their language skills in an informal, one-on-one setting out-side the classroom for one to two hours a week.

ESL Online Pronunciation/Academic Writing Consultation for SMU Graduate Students
For students of the Moody School of Graduate and Advanced Studies, individual consultations via Zoom are available by appointment. During a 45~50-minutes long session, ESL consultants will focus on specific questions or immediate needs to practice for research presentation, or revise academic papers. Follow-up sessions can be scheduled as necessary. Students will be responsible for submitting materials to work on during the consultation in advance. Appointment can be made via SMU Booking System.

SMU Abroad
www.smu.edu/abroad

In a globalized economy, employers increasingly demand job candidates with intercultural competence. Studying, interning, and researching abroad builds global experience, which is an integral part of an undergraduate education. The SMU Abroad Office serves the SMU community by developing and coordinating international programs, and by providing support services during and after the experience abroad. Students at SMU have the opportunity to participate in a wide range of January, May, summer, and semester abroad programs, including academic programs that yield University Curriculum and Common Curriculum credit, major-specific programs, internships, and guided research. These programs may be faculty-led, SMU approved affiliated, or hybrid abroad programs. Students studying, researching, or interning abroad encounter diverse global communities and intellectual traditions. SMU Abroad programs and global partnerships enhance academic and experiential learning around the world.

Eligibility Requirements
Students applying to SMU Abroad programs must be in good academic and disciplinary standing. SMU requires students to have a minimum 2.500 cumulative GPA and no active conduct violations in order to participate in an abroad program. Specific programs may have higher minimum GPA requirements. Many programs have competitive admission. Detailed program requirements are on the SMU Abroad website.

Application Process
Matriculated students may apply to study abroad after completing one full semester of study (Fall or Spring term) at SMU. Students are discouraged from studying abroad during their final full semester of study at SMU, because SMU Abroad cannot guarantee that abroad credits will be processed in time for graduation in such cases.

Students who matriculate as transfer students must complete one full semester of study at SMU in order to be eligible to apply for study abroad. A transfer student's cumulative GPA will be used as the basis for determining academic eligibility.

Students must apply to study abroad by the deadlines published on the SMU Abroad website.

Academic Credit

Students enrolled on SMU Abroad programs are considered full-time students during the duration of their abroad study. Grades earned abroad will be posted to the SMU transcript and will be calculated into the student's cumulative and SMU GPA. Academic credit earned abroad counts as credit earned in residence.

All courses on faculty-led or hybrid programs have SMU specific course numbers and directly post to the SMU transcript. Courses on affiliated programs must be petitioned during the SMU Abroad application process. These courses may appear on the SMU transcript as courses with SMU specific course numbers or as Free Elective Study Abroad (FESA) credit. Petitioned courses are reviewed by a designated SMU faculty member credentialed in the discipline in which each course is offered. This faculty review determines how petitioned courses appear on the SMU transcript. Specific information about procedures and policies for earning credit is provided on the SMU Abroad website.

Students may request University Curriculum or Common Curriculum credit for courses taught by non-SMU faculty on SMU affiliated programs; more information can be found on the SMU Abroad website.

Students who wish to take courses on a no-credit or pass/fail basis should review the Grade Options for Courses Taken on SMU Abroad Programs and the Pass/Fail Option sections found under Grade Policies in this catalog.

Students considering study abroad are urged to meet early and often with both their academic advisor and SMU Abroad advising. This advising input is essential in integrating study abroad coursework into a student's four-year plan of study.

Faculty-Led Programs

Short-term, faculty-led programs offer students the opportunity to travel and study abroad under the leadership of SMU faculty members. These programs are offered in January, May, and Summer terms. Students can earn 3, 6, 7, or 8 hours of credit while spending one to eight weeks studying, researching, or interning abroad. All courses are either taught by or approved by SMU faculty.

Affiliated Programs

SMU affiliated programs are hosted by well-established study abroad program providers. These programs offer a diverse array of study abroad opportunities around the world. Term program options include study at universities, study abroad programs on specific disciplinary subjects, language immersion programs, and programs with field study and internship components. A wide range of programs are pre-approved for SMU students, with courses available in many disciplines.

Students applying to study abroad on SMU affiliated programs apply first to the SMU Abroad office and then to the specific program in which they are interested. The dual application ensures that students are properly registered at SMU and registered as a participant on the study abroad program.

Hybrid Programs

These programs merge the characteristics of the faculty-led and affiliated models. All courses are vetted and approved by SMU faculty. Students may have the option to enroll in courses at a local university.

Tuition and Fees

SMU Abroad students will be charged SMU tuition at the SMU tuition rate on campus, as well as miscellaneous fees. Students will be billed by SMU at the usual time. SMU in turn will pay the academic costs of the abroad program. Details on SMU Abroad costs and billing procedures are available on the SMU Abroad website.

Scholarship and Financial Aid

Matriculated SMU students may apply their institutional and federal financial aid to their abroad program. Students should consult with SMU Financial Aid for details.

SMU Abroad offers a limited number of study abroad scholarships. Students apply separately for these scholarships during the SMU Abroad application process. In addition, many departments and other academic units on campus also offer scholarship support for study abroad. External scholarships are also available.

Students with any level of financial aid considering study abroad should meet with SMU Abroad advising several months prior to studying abroad and should ask for detailed information about possible funding sources.

International Student and Scholar Services

www.smu.edu/international/isss

The International Student and Scholar Services Office provides immigration services to students, scholars and professors from around the globe who are engaged in academic studies or cultural exchange projects at SMU. ISSS coordinates pre-arrival information, ensures compliance with current federal guidelines and provides cultural and educational programming opportunities to SMU's international community. ISSS is located in the Laura Lee Blanton Student Services Building in the International Center, which supports students and faculty who are not U.S. citizens or permanent residents, as well as their families.

SMU-in-Taos

www.smu.edu/taos

General Information

The University maintains an academic campus at Fort Burgwin, located 10 miles southeast of Taos, New Mexico. Academic terms are regularly offered at the SMU-in-Taos campus in January and during the summer.

The campus is home to historic Fort Burgwin, 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. Pot Creek Pueblo, one of the largest prehistoric sites in the northern Rio Grande Valley, is also 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 1320.

SMU-in-Taos offers academic courses in January, May, June, and August. Courses are offered in the humanities, natural and social sciences, business, engineering, performing and studio arts, and archaeological research. At just eight class days, January Term is the most intensive term. Students can enroll in up to four credit hours and ski or snowboard on the weekends for PRW II credit. May and August are 12 class day terms in which students may take up to five credit hours. A longer, more traditional summer term in June allows students to take up to eight hours of coursework. Course offerings vary each year, and are designed to emphasize the Southwest, experiential learning and sustainability. Courses are heavily field trip oriented to take advantage of the campus' proximity to important northern New Mexico cultural sites.

Program participants are housed in small residences called casitas. Each casita has shared dorm rooms, bathrooms and a large study area with fireplace. Laundry facilities are located on campus, as well as a campus center, chapel, dining hall, library, computer lab and auditorium. Campus recreational facilities include a sand volleyball court, tennis and basketball courts, workout room and hiking trails.

Additional information on the campus and its programs is available online or by contacting the SMU-in-Taos Office, Southern Methodist University, PO Box 750145, Dallas TX 75275; phone 214-768-3657. Course descriptions and additional information can also be found online (smu.edu/taos) or obtained via email (smutaos@smu.edu).

Student Appeals and Complaints

Student Appeals and Complaint procedures can be found in the Right to Know section of the catalog.

Intersessions on the Dallas Campus

Intersessions allow students to maximize their time at SMU, stay on track for graduation, and explore new interests. In Jan Term, students complete one course in as little as 8 class days; a limited set of online classes is available over a month-long session. In May Term students complete one course in 11 class days. The June and July intersessions offer classes in both 11 class-day and 22 class-day formats. Students may take up to 7 credit hours during the June sessions and up to 7 credit hours during the July sessions (overload scheduling may be available by application). A small number of courses run all summer long in a combined 10-week session.

Intersessions courses are separate from the course load carried during the fall and spring semesters and additional tuition charges apply. No fees are assessed except for course-specific costs such as lab/studio fees, or travel/accommodation for courses held outside Dallas. On-campus housing is also an additional charge. SMU students should consult with their financial aid adviser for assistance regarding applicable financial assistance. Most SMU merit-based and need-based financial aid is available in pro-rated amounts. The Intersessions office awards need-based scholarships to qualifying students; those interested should look for the application on the Intersessions website. Federal and state funds are not available for Jan Term, but may be available for summer if a student maintains enrollment in 6 or more credit hours.

Between Jan Term, May Term, and Summer sessions, more than 350 courses are offered annually. Courses fulfill University Curriculum (UC)/ Common Curriculum (CC), major, minor, or prerequisite requirements. Any SMU student in good standing is eligible to enroll in Intersessions through my.SMU. It may also be possible for non-SMU students to be admitted as visiting students.

Students living in SMU residential commons during fall and spring may stay in their room during Jan Term. Students in residence and staying for May Term are eligible for on-campus housing by application, but those accepted will be moved to a single May Term commons. On-campus housing is available by application to any student attending June and July sessions, space permitting. All housing arrangements and fees are administered by SMU Residence Life and Student Housing (RLSH).

For more information about SMU Intersessions, please visit our website, smu.edu/intersessions. Email us at intersessions@smu.edu or call 214-768-1009.

Reserve Officers' Training Corps

ROTC courses are not offered on the SMU campus; however, students who wish to participate in the ROTC may earn SMU-approved elective credit through area programs off-campus. Additional information about the Air Force ROTC program is available in the Dedman College section of this catalog, and the Army ROTC program is found in the Lyle School of Engineering section.

Office of Global, Online and Continuing Education

The Office of Global, Online and Continuing Education oversees and advances SMU's online and continuing education portfolio. Its mission is to deliver innovative learning experiences that boost careers and transform lives. The office includes SMU Global and Online (GO) and SMU Continuing and Professional Education (CAPE).

SMU GO partners with academic units across the university to support the development and delivery of online graduate programs for adult learners. SMU GO also works with university stakeholders to establish and update standards and best practices for online faculty training, course development, and other areas critical to ensuring high-quality online programs and courses.

Partnering with faculty and industry professionals, SMU CAPE offers a wide range of non-credit programs to help students advance in their careers or successfully transition to new ones. The SMU CAPE catalog includes certificate programs, boot camps, workshops, short courses, and other offerings in on-campus and online formats.

Additional information and a full listing of current opportunities are available at https://www.smu.edu/Provost/ProvostOffice/CIP/GOCE/Programs.

Right to Know

Southern Methodist University is pleased to provide information regarding academic programs, enrollment, financial aid, public safety, athletics and services for persons with disabilities. 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**
   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**
   Registrar, Blanton Student Services Building, Room 101
   214-768-3417
   a. *Graduation Rates.* The completion or graduation rate of the institution's certificate-seeking or degree-seeking, full-time undergraduate students and students who receive athletically related financial aid. http://www.smu.edu/Academics/StudentAchievement
   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

3. **Financial Aid**
   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- 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
      1. Service under the Peace Corps Act;
      2. Service under the Domestic Volunteer Service Act of 1973; or
      3. Comparable service as a volunteer for a tax-exempt organization of demonstrated effectiveness in the field of community service.
      4. The requirements for return of Title IV grant or loan assistance.
      5. Enrollment status of students participating in SMU study abroad programs, for the purpose of applying for federal financial aid.

4. **Student Financials/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**
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**
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**
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.

8. **Student Appeals and Complaints**
Student with complaints and/or grievances must first seek to resolve them with Southern Methodist University through its processes described below. In all instances and with all offices and representatives of the University, all complaints are handled impartially and in a timely manner by professionals in the subject area of the complaint. No adverse action will be taken against anyone filing a formal complaint or grievance with Southern Methodist University.
Southern Methodist University operates with integrity in all issues and is dedicated to preserving the rights of all members of the University community. Categories for which students may wish to reach out for advice and assistance and/or to submit an appeal or register a complaint are as follows: academics, code of conduct, discrimination, financial issues, honor code and privacy issues. An overview of the roles, responsibilities and procedures for complainants and the University is outlined in each of the areas below.
a. Academic Appeals and Petitions
www.smu.edu/capappeal
b. Student Code of Conduct
www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/ConductCode
c. Office of Institutional Access and Equity
www.smu.edu/IAE
d. Financial Responsibility and Confidentiality
www.smu.edu/EnrollmentServices/FinancialAndConfidentiality
e. Honor Code
www.smu.edu/StudentAffairs/StudentLife/StudentHandbook/HonorCode
f. Appeal of Grade
Enrollment and Academic Records

g. Academic Grievance and Appeals Procedures for Students with Disabilities
www.smu.edu/capappeal
h. Appeal from financial aid decisions, including financial aid decisions based on lack of satisfactory academic progress
Enrollment and Acadmic Records
i. Policy for Non-Renewal of Athletic Aid
www.smumustangs.com/compliance
In addition to the right to use internal University complaint procedures, every student has the right under federal law to use complaint processes provided by the state in which his or her campus is located.

9. *Texas.* For complaints regarding programs in Texas, students should contact the Texas Higher Education Coordinating Board, Office of General Counsel, PO Box 12788, Austin, TX 78711-2788; email: studentcomplaints@thecb.state.tx.us. Additional information about the Texas student complaints process may be found at www.thecb.state.tx.us ("College Readiness and Success" link).
New Mexico. For complaints regarding programs in New Mexico, students should contact the New Mexico Higher Education Department, 2044 Galisteo Street, Suite 4, Santa Fe NM 87505-2100; telephone 505-476-8400. Additional information about the New Mexico student complaints process may be found online at www.hed.state.nm.us or by contacting private.schools@state.nm.us.

Dedman College of Humanities and Sciences

General Information

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

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

The School of Humanities and Sciences was merged in 1980 with University College to create a new entity central to the enterprise of undergraduate education. This college would provide the basic foundations in liberal arts education to all SMU students and also serve as a center for the integration of specialized education in the humanities, social sciences and natural sciences. As an indication of its centrality to the educational process, the name was changed from school to college, emphasizing that it is a community of students and teachers, whose life together, no matter how diversified and specialized, is unified by the implicit and explicit values derived from a liberal arts education. In 1981, the newly formed college was endowed by the late Robert H. Dedman, Sr., and his wife, Nancy McMillan Dedman, and was renamed Dedman College.

Dedman College is the oldest and largest academic unit at SMU. Annually, approximately 2,200 undergraduate students major in Dedman College programs, with an equal number of pre-majors. The college enrolls approximately 400 graduate students. More than 315 faculty members are based in the college's 16 academic departments. Undergraduate students in Dedman College may major and minor in more than 55 programs. Dedman College offers 24 graduate programs leading to a master's degree and 16 programs leading to a Ph.D. degree.

Academic Programs of Study

Undergraduate majors in Dedman College include the following:

Anthropology	--Mexican-American Studies	Religious Studies
--Health and Society	History	Sociology
Biochemistry	Human Rights	--Markets and Culture
Biological Sciences	Individualized Studies in the Liberal Arts with a Focus on Women's and Gender Studies	Statistical Science
Chemistry	International Studies	World Languages and Literatures
Data Science	Mathematics	--World Languages: Chinese
Earth Sciences	Medieval Studies	--World Languages: French
Economics	Philosophy	--World Languages: German
--w/ Finance Applications	Physics	--World Languages: Italian
--w/ Management Information Applications Concentration	- Biophysical Sciences	--World Languages: Spanish
English	Political Science	--French
Ethnic Studies	Psychology	--French Studies
-- African/African-American Studies	Public Policy	--Spanish

Undergraduate minors in Dedman College include the following:

Anthropology	Economics	--Political Thought
--Archaeological	English	Psychology
--Biomedical	Ethnic Studies	Public Policy and International Affairs
--Cultural	--African/African-American Studies	Religious Studies
--Environmental	--Mexican-American Studies	--Jewish Studies
--General	Health Sciences	Sociology
Area Studies	History	Statistical Science
--Asian Studies	Human Rights	Women's and Gender Studies
--European Studies	International Studies	World Languages and Literatures
--Latin American/Iberian Studies	Law and Legal Reasoning	--Arabic
--African/Middle East Studies	Mathematics	--Chinese
Biological Sciences	Medieval Studies	--French
--Neuroscience	Philosophy	--German
Chemistry	--Cognitive Science	--International Film Studies
Classical Studies	--Ethics	--Italian
Data Science	Physics	--Italian Area Studies
Digital Humanities	Political Science	--Japanese
Earth Sciences	--American Politics, Law and Administration	--Latin
--Geology	--Comparative and International Studies	--Russian Area Studies
--Environmental Earth Sciences	--General	--Spanish

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

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

Honors Programs

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

Programs for Preprofessional Students

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

Prelaw

Prelaw students may declare a major or academic program in any discipline or field. Prelaw seniors who go on to law school may have majors in any SMU undergraduate school. Success in law school requires skills in critical analysis, logical reasoning, and written and oral expression. The spoken and written word are the principal tools of the legal profession; thus, students who intend to study law must develop an excellent knowledge and grasp of the English language and a clear, concise style of expression.

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

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

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

Admission to Law Schools. Candidates for admission to an American Bar Association-approved school of law must take the Law School Admission Test (LSAT) administered by the national Law School Admission Council. Because of the Early Application deadline, students are urged to take the LSAT in the fall term in which they apply to law school. (Note that there are multiple times during the year when the test is administered.) Except in very rare circumstances, law schools require applicants for admission to hold a bachelor's degree from an accredited college or university. For additional prelaw information, and assistance in the application process, undergraduate students may consult the prelaw services in the University Advising Center, located in the Laura Lee Blanton Building, Suite 408.

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

Premedical/Predental

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

Most medical and dental schools require the following courses for entry. These courses should be completed by the end of the junior year: English, 6 credit hours; mathematics (including calculus and statistics), 6 credit hours; biology, 8-14 credit hours (14 for Texas medical schools); chemistry, 16 credit hours; and physics, 8 credit hours. In addition, most schools require 3 credit hours of biochemistry. This coursework may be done as part of a major or minor in the sciences or as electives in a non-science major or minor. Some courses will apply toward the University-wide requirements.

Admission to Medical and Dental Schools. Candidates for admission to medical school must take the Medical College Admission Test (MCAT). The MCAT should be taken in the spring of the junior year (or year of application). Candidates for admission to dental school must take the Dental Admission Test (DAT), which also should be taken in the spring of the junior year (or year of application).

All students intending to apply to medical or dental schools should meet with the Office of Pre-Health Advising (OPHA) no later than early in their junior year (or year of application) to review academic and extracurricular progress and to receive important information about the HPRC (Health Professions Recommendation Committee) process.

While the Office of Pre-Health Advising makes every effort to advertise and communicate upcoming events to students, it is ultimately the student's responsibility to be aware of timelines, deadlines, and events related to application to professional school. Pre-health students are expected to remain engaged with the OPHA through advising appointments, attendance at group workshops and meetings, and by monitoring the Pre-Health website, the Pre-Health Facebook page, and emails from the OPHA. Failure to stay up-to-date with important events such as mandatory application workshops may result in losing the opportunity to interview with the HPRC and receiving a committee letter of evaluation.

Undergraduate Internship Program

The Dedman College Undergraduate Internship Program helps students begin to prepare for employment. Internship credit is designed to demonstrate and reinforce the valuable and highly marketable skills that our students develop. The following guidelines apply:

- Credit-bearing internships are supervised by faculty, department or program.
  Note: Noncredit-bearing internships are those without faculty, department or program supervision. Internship orientation is strongly suggested for noncredit-bearing internships. Students may be asked to sign a Release of Liability for some internships.
- Dedman Internship Program Orientation and Standardized University Release of Liability for Education Internship are required for credit-bearing internships.
- The Hegi Family Career Development Center can assist students in finding suitable internships, developing resumes, and preparing for interviews and the internship experience. Students are advised to visit the career center well in advance of applying for an internship in order to help ensure adequate preparation for internships.
- Internship credit and grades are based on a written learning contract signed by the student and faculty supervisor and approved by the department chair or director of undergraduate studies. In addition, students and site supervisors will complete evaluations of the experience. These evaluations are not considered in determination of the grade.
- Internships that are used to qualify for Dedman College course credit may not also be used to qualify for course credit in another SMU school.
- Internship credit requires a written component based on and reflective of the experiential dimension.
- Internship credit is available only through approved internship courses.
- Internship credit may range from one to three hours.
- Maximum total internship credit that may be applied toward a degree is three hours.

Teacher Education

The University offers teacher education through the Simmons School of Education and Human Development and recommends candidates for certification by the State Board of Educator Certification. The recommendation is based on a candidate's successful completion of 30-33 credit hours in education (EDU) courses and six credit hours of student teaching. In addition, candidates must pass the Texas Examinations of Educator Standards. Prospective secondary teachers must have majors in appropriate teaching fields; students who wish to teach in a science or humanities discipline at the secondary level should combine a Dedman major in that area with the appropriate education (EDU) coursework through the Simmons School, resulting in a double major (one in Dedman and one in Simmons). More information is available from the Department of Teaching and Learning. For a general description of the program in teacher education, students should see the Simmons School of Education and Human Development section of this catalog.

Courses Taken in SMU Abroad Programs

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

Transfer Courses from Other Institutions

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

Admission

All incoming first-year students to the University are admitted as SMU Pre-Majors. Students should see the Admission to the University section of this catalog for admission requirements. Students wishing to pursue majors in the humanities, social or natural sciences, mathematics or statistics, or various multidisciplinary programs will declare a major in Dedman College. Specific degree requirements and additional information for any of these

programs can be found in the departmental sections of this catalog. Admission into academic departments in Dedman College requires the completion of 24 credit hours of coursework with a cumulative GPA of 2.000 or higher. Additional entry/admission requirements may exist within specific departments.

Admission from Other Schools within SMU

An individual enrolled in another school of the University may apply to their current school for permission to transfer into a degree-granting program in Dedman College. A student who has achieved a cumulative GPA of 2.000 on all SMU work attempted will normally be admitted to candidacy for a degree in Dedman College. Some academic programs may have additional requirements. Students should consult the catalog section and/or the department for more information.

Readmission of Former Students

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

Degree Requirements

Dedman College offers Bachelor of Arts (B.A.) and Bachelor of Science (B.S.) degrees. Students should consult the individual programs of study outlined in the following sections of this catalog for the degree available in a specific area of study.

For more information on enrollment in accelerated pathway programs, see the Enrollment Policies: Enrolling for Graduate Courses section of this catalog.

Student Responsibility for Completion of Degree Plan

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

The Major

A candidate for a degree must complete the requirements for a major in one of the departments or interdisciplinary programs of the college as well as the University-wide requirements. The major requirements of each department and program are stated at the beginning of the section describing the courses offered in that department or area. The applicable requirements of the major are those in effect during the academic year of matriculation. Coursework counting toward a major must include at least 18 advanced hours (3000 level and above) of approved SMU credit courses completed at SMU. All advanced courses required for the major must be passed with a grade of *C*- or better and may not be taken pass/fail. Some majors require a *C*- or better in all coursework. In addition, Dedman College requires a cumulative GPA of 2.000 for all courses attempted for completion of a major. Specific programs may require a higher GPA. All courses attempted that could count toward the major are included in determining the major GPA. Majors must be officially declared (or changed) through the Dedman College Office of Records and Academic Services, located in Clements Hall, Room 134.

The Minor

A candidate for a degree may also complete the requirements of one or more minors, either in Dedman College or in other undergraduate schools of the University. Advisers in the minor programs assist students in selecting a minimum of 15 credit hours, including at least nine hours at the advanced level (3000 level and above), suitable for meeting requirements for a minor. Coursework counting toward a minor may not be taken pass/fail. All advanced courses required for the minor must be passed with a grade of *C*- or better. Some minors require a *C*- or better in all coursework. At least half of the advanced hours required by Dedman minors must be completed in approved SMU credit courses and may not be transferred or taken pass/fail. In addition, Dedman College requires a cumulative GPA of 2.000 for all courses attempted for completion of a minor. All courses attempted that could count toward the minor are included in determining the minor GPA. Minors must be officially declared (or changed) through the Dedman College Office of Records and Academic Services, located in Clements Hall, Room 134.

Multiple Majors and Minors

Students are encouraged to broaden their education by taking full advantage of the University's diverse undergraduate programs. Although only one major is required for graduation, many students declare more than one

major. With careful planning, students may complete two or more majors and/or multiple minors within the prescribed total hours.

Students may not pursue multiple programs affiliated with the same department or programs without permission from that department and the Dedman College Office of Records and Academic Services. Additional restrictions on "double counting" credits may apply.

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

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

General Requirements

Application for a Degree

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

Please see http://www.smu.edu/dedmanrecords for further information.

Credits

A candidate for a degree in Dedman College must have:

- A minimum total of 120 credit hours, including the University-wide requirements and the requirements for a major. Within these 120 hours are the following:
    - A minimum total of 42 advanced hours (3000 level and above).
    - A maximum total of three hours of internship credit.

Grades

A candidate for a degree in Dedman College must attain:

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

SMU (or Resident) Credit Requirement

As minimum requirements, a candidate for a degree in Dedman College must take the following numbers of credit hours through SMU courses or SMU-approved international programs:

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

Requirements for Obtaining Two Degrees Simultaneously

Students who select two majors associated with different baccalaureate degrees (B.A. and B.S.) in Dedman College may receive both degrees simultaneously by completing all requirements in each major, along with general requirements for a degree in Dedman College and University-wide requirements. However, students may not be awarded more than one baccalaureate degree from the same department. Additionally, students may not pursue multiple programs affiliated with the same department or programs without permission from that department and the

Dedman College Office of Records and Academic Services. Additional restrictions on "double counting" credits may apply.

Students may pursue a program of study leading to a degree from Dedman College along with a degree from the Cox School of Business, Lyle School of Engineering, Meadows School of the Arts, or Simmons School of Education and Human Development. The student must obtain approval for the proposed program of study from the records offices of the schools involved.

Students who complete majors associated with different degrees (B.A. and B.S.) will receive two diplomas, one for each degree. Students who complete majors associated with one degree (either B.A. or B.S) will receive a single diploma that lists their respective majors.

Graduation Honors

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

Departmental Distinction

During their junior and senior years, students may participate in the honors courses and seminars offered within their major departments. A variety of internships and research programs are also offered in some departments to provide practical exposure and experience within the disciplines. By successfully completing a special program of study in the major department, a student may be awarded departmental distinction regardless of eligibility for graduation honors. This award is conferred by the major department on the basis of criteria prescribed by the department, but all programs include the minimum requirements of independent reading and research beyond the regular departmental requirements for a degree and the completion of a senior paper or research report. Further information can be obtained from the individual departments in the Courses of Study in Dedman College section of this catalog or from www.smu.edu/dedman.

Aerospace Studies: Air Force ROTC

General Information

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

The program is open to all students. First-year students may enroll in the four-year program, and students with at least three undergraduate or graduate academic years remaining may apply for the two- or three-year program. Current emphasis in the Air Force ROTC college scholarship program is to award scholarships to candidates pursuing undergraduate engineering or other scientific and technical disciplines. Nearly 90 percent of Air Force ROTC scholarships are awarded in these disciplines. However, students in every degree program enjoy scholarship opportunities as the Air Force seeks to engage students who excel both academically and militarily. Scholarships are awarded at various amounts in increments of four, three and two years and entitlements may be extended to cover a fifth year of school if the student is taking an approved technical major. Uniforms and textbooks for Air Force ROTC courses are issued at no cost to cadets.

Students register for the aerospace studies courses at the same time and in the same manner as they register for other SMU courses. The Air Force ROTC courses may be taken as electives in most academic majors. Successful completion of degree requirements and the Air Force ROTC program can lead to a commission as a second lieutenant in the United States Air Force. Students with at least six months of active military service may be granted waivers on a portion of the general military course. Consult the University of North Texas' AFROTC Detachment 835 Recruiting Flight Commander for more details regarding prior enlisted accreditation.

For more information, students should email Associate Dean Thomas W. Carr or contact Air Force ROTC, University of North Texas, 1155 Union Circle, #305400, Denton, TX, 76203; 940-369-8674; det835@unt.edu; www.afrotc.unt.edu.

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

Aerospace Studies (ROTC) Courses

AERO 1103 - United States Air Force Heritage and Values
Credits: 1
Provides an introduction to the Air Force. Examines general aspects of the Department of the Air Force, leadership, benefits, and opportunities for Air Force officers and lays the foundation for becoming an Airman by outlining the heritage and values of the Air Force. Students are introduced to the Air Force way of life and gain knowledge about what it means to be an Airman.

AERO 1104 - United States Air Force Heritage and Values
Credits: 1
Provides a historical perspective on topics such as the lessons on war and US military, Air Force operations, principles of war, and airpower. Presents students with an understanding of the use of air and space power. Students are introduced to the Air Force way of life and gain knowledge about what it means to be an Airman.

AERO 2100 - Cooperative Education in Aerospace Studies
Credits: 1
Supervised work in a job directly related to the student's major, professional field of study, or career objective. Prerequisites: Permission of department chair; student must meet employer's requirements. May be repeated for credit.

AERO 2103 - Team and Leadership Fundamentals
Credits: 1
A one hour survey course designed to provide a fundamental understanding of both leadership and team building. Students apply leadership skills when completing team building activities and discussing topics such as conflict management. Students should demonstrate basic verbal and written communication skills.

AERO 2104 - Team and Leadership Fundamentals
Credits: 1
A one hour survey course designed to provide a fundamental understanding of both leadership and team building. Students apply leadership skills when completing team building activities and discussing topics such as conflict management. Students should demonstrate basic verbal and written communication skills.

AERO 2200 - Cooperative Education in Aerospace Studies
Credits: 2
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: Permission of division chair; student must meet employer's requirements. May be repeated for credit.

AERO 2300 - Cooperative Education in Aerospace Studies
Credits: 3
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: Permission of division chair; student must meet employer's requirements. May be repeated for credit.

AERO 2400 - Cooperative Education in Aerospace Studies
Credits: 4
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: Permission of division chair; student must meet employer's requirements. May be repeated for credit.

AERO 3431 - Leading People and Effective Communication
Credits: 4
Provides a more in-depth understanding of how to effectively lead people and equips students with the tools to use in leadership roles. Additionally, students hone their writing and briefing skills. Prerequisites: AERO 2103 and AERO 2104.

AERO 3432 - Leading People and Effective Communication
Credits: 4
Provides a more in-depth understanding of how to effectively lead people and equips students with the tools to use in leadership roles. Centers on leadership and ethics, though students continue to work on their writing and briefing skills. Prerequisite: AERO 3431.

AERO 4100 - Cooperative Education in Aerospace Studies
Credits: 1
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4200 - Cooperative Education in Aerospace Studies
Credits: 2
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4300 - Cooperative Education in Aerospace Studies
Credits: 3
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4400 - Cooperative Education in Aerospace Studies
Credits: 4
Supervised work in a job directly related to the student's major, professional field of study, or career objective, 1-3 hours each week. Prerequisites: 12 hours of credit in aerospace studies; permission of division chair. Student must meet employer's requirements. May be repeated for credit.

AERO 4431 - National Security Affairs and Preparation for Active Duty
Credits: 4
Examines the basic elements of national security policy and process. Discusses basic air force domain operations, selected roles of the military in society, and current domestic and international issues affecting the military profession. Covers the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. Special topics of interest focus on the military as a profession, officership, preparation for active duty, and current issues affecting the military. Prerequisites: AERO 3431 and AERO 3432.

AERO 4432 - National Security Affairs and Preparation for Active Duty
Credits: 4
Examines the need for national security; analyzes the evolution and formulation of the American defense policy, strategy, and joint doctrine; investigates the methods for managing conflict; and provides an overview of regional security, arms control and terrorism. Special topics of interest focus on the military as a profession, officership, the military justice system, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Prerequisites: AERO 3431, AERO 3432, AERO 4431.

Anthropology

www.smu.edu/anthro

Professor Caroline B. Brettell, **Department Chair**

Professors: Eric G. Bing (Health and Society Co-Director of Undergraduate Studies), Caroline B. Brettell, Sunday Eiselt, Karen Lupo, David J. Meltzer, Christopher I. Roos, Carolyn Smith-Morris
Associate Professors: Michael Adler, Mark D. McCoy, Neely Myers, Nia Parson (Health and Society Co-Director of Undergraduate Studies), Nicolas Sternsdorff-Cisterna (Director of Undergraduate Studies)
Assistant Professors: Maryann R. Cairns, Kacy Hollenback, K. Ann Horsburgh, Kelly McKowen
Lecturer: Matthew Boulanger

General Information

Anthropology is the study of humanity in its broadest context. Anthropology encompasses four subdisciplines within its approach: archaeology, biological anthropology, linguistic anthropology and sociocultural anthropology. In addition to providing the basis for careers in these subdisciplines, anthropology provides a background for professional careers in teaching, research, international affairs, medicine, business or law. The department offers B.A. and B.S. degrees with a major in anthropology and B.A. and B.S. degrees with a major in health and society. A grade of *C*- or better must be earned in all courses taken in fulfillment of the requirements for the major. Students must maintain a minimum 2.000 GPA in their major and should consult their departmental adviser periodically to review their progress. Students pursuing a major in anthropology may not also pursue a minor in anthropology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

Departmental Distinction

This program is open to junior and senior anthropology majors and health and society majors with outstanding academic records. Graduation with departmental distinction is designated on the diploma of those who successfully complete the program. To earn departmental distinction, a student must:

1. Complete the usual coursework for a B.A. or B.S. degree with at least a 3.500 GPA in their major and with at least a 3.000 GPA overall.
2. With a grade of *B* or higher: For anthropology majors, pass ANTH 5334 and ANTH 5335 or complete a substantial independent reading program (for three credit hours that replaces one of these) on the history, conceptual foundations or methodological problems of the discipline. For health and society majors, pass ANTH 4343 or ANTH 5336.
3. With a grade of *A* or *A*-: For anthropology majors, conduct a research project (for three credit hours in ANTH 4391 or ANTH 4392) and complete a significant research paper that is a minimum of 20 pages of text, includes a bibliography, and is written in appropriate sub-disciplinary professional style and format. For health and society majors, enroll in an Independent Study (e.g., ANTH 4391) to conduct an independent research project (may be associated with a faculty member's overarching research) that meets several requirements. See the health and society director or website for details.
4. For anthropology majors, pass an oral examination of one hour in length (with at least three full-time departmental faculty members), covering the results of the research project and general issues and concepts in anthropology according to the subfield specialty. For health and society majors, make an oral presentation of approximately 30 minutes in length in a format approved by the supervising faculty member. See health and society director or website for further details on the format options for this presentation.

Anthropology, B.A.

The B.A. program in anthropology is designed to provide students with a strong foundation in the diversity of human biology and culture over time. Students are able to shape their particular specialty within anthropology while developing research skills for life after graduation. The B.A. degree works well as a stand-alone major or when paired with another major for students pursuing diverse careers. Of the required 38 credit hours of anthropology, at least three credit hours must be at the 4000 level or higher. Students pursuing a major in anthropology may not also

pursue a minor in anthropology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

Note: ANTH 1321 is a preferred elective.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (14 Credit Hours)

- ANTH 2301 - Introductory Cultural Anthropology
- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology
- ANTH 4399 - Integrated Themes in Anthropology

Regional Courses (6 Credit Hours)

Two courses from the following:

- ANTH 3304 - North American Archaeology
- ANTH 3312 - Mesoamerican Archaeology
- ANTH 3313 - South American Indians of the Past and Present
- ANTH 3314 - Peoples of Africa
- ANTH 3318 - Life in the Ancient Southwest
- ANTH 3321 - Ancient Hawaii
- ANTH 3323 - East Asia in Motion
- ANTH 3346 - Culture and Diversity in American Life
- ANTH 3353 - Indians of North America
- ANTH 3354 - Latin America: Peoples, Places, and Power
- ANTH 3355 - Society and Culture in Contemporary Europe
- ANTH 3358 - From Gold to Gambling: Native Americans of the Southwest
- ANTH 3359 - Peoples and Cultures of the Middle East
- ANTH 3374 - Cultures and Environments of the Southwest
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4385 - Pacific Island Archaeology

Methods and Analysis Courses (6 Credit Hours)

- ANTH 5681 - Field Methods in Archaeology
  or
- One course from Group 1 (Methods) and one course from Group 2 (Analysis)

Group 1: Methods

- ANTH 3324 - Rites of Passage: Anthropological Perspectives
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 4333 - Laboratory Methods in Archaeology
- ANTH 5344 - Research Methods in Ethnology
- ANTH 5381 - Field Methods in Archaeology
- SOCI 3311 - Social Science Research Methods

Group 2: Analysis

- ANTH 3334 - Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, and Ancient Astronauts

- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4325 - Introduction to Osteology I: Human-Animal Interactions
- ANTH 4383 - Geoarchaeology
- ANTH 4391 - Independent Study and Research (data analysis topic)
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5382 - Field Methods in Archaeology
- SOCI 3312 - Database Methods and Analysis

Anthropology Electives (12 Credit Hours)
Four courses, with at least 3 credit hours (one course) at the 4000 level or higher.

Total for the Major Only: 38 Credit Hours

Anthropology, B.S.
The B.S. program in anthropology is designed for students who are particularly interested in careers in medicine, public health or research in anthropological or archaeological sciences. Of the 50 credit hours of anthropology and other related courses required, at least three credit hours must at the 4000 level or higher. Students pursuing a major in anthropology may not also pursue a minor in anthropology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
Core Courses (20 Credit Hours)
- ANTH 2301 - Introductory Cultural Anthropology
- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology
- ANTH 4399 - Integrated Themes in Anthropology

- ANTH 5334 - History of Anthropology, Part One
  or
- ANTH 5335 - History of Anthropology, Part Two

- STAT 2331 - Introduction to Statistical Methods

Regional Courses (6 Credit Hours)
Two courses from the following:
- ANTH 3304 - North American Archaeology
- ANTH 3312 - Mesoamerican Archaeology
- ANTH 3313 - South American Indians of the Past and Present
- ANTH 3314 - Peoples of Africa
- ANTH 3318 - Life in the Ancient Southwest
- ANTH 3321 - Ancient Hawaii
- ANTH 3323 - East Asia in Motion
- ANTH 3346 - Culture and Diversity in American Life

- ANTH 3353 - Indians of North America
- ANTH 3354 - Latin America: Peoples, Places, and Power
- ANTH 3355 - Society and Culture in Contemporary Europe
- ANTH 3358 - From Gold to Gambling: Native Americans of the Southwest
- ANTH 3359 - Peoples and Cultures of the Middle East
- ANTH 3374 - Cultures and Environments of the Southwest
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4385 - Pacific Island Archaeology

Methods and Analysis Courses (6 Credit Hours)

- ANTH 5681 - Field Methods in Archaeology
  or
- One course from Group 1 (Methods) and one course from Group 2 (Analysis)

Group 1: Methods

- ANTH 3324 - Rites of Passage: Anthropological Perspectives
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 4333 - Laboratory Methods in Archaeology
- ANTH 5344 - Research Methods in Ethnology
- ANTH 5381 - Field Methods in Archaeology
- SOCI 3311 - Social Science Research Methods

Group 2: Analysis

- ANTH 3334 - Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, and Ancient Astronauts
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4325 - Introduction to Osteology I: Human-Animal Interactions
- ANTH 4383 - Geoarchaeology
- ANTH 4391 - Independent Study and Research (data analysis topic)
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5382 - Field Methods in Archaeology
- SOCI 3312 - Database Methods and Analysis

Advanced Statistics or Data Analysis Course (3 Credit Hours)

One course from the following:

- STAT 3300 - Applied Statistics: Regression
- STAT 3312 - Categorical Data Analysis
- STAT 4385 - Introduction to Nonparametric Statistics
- SOCI 3312 - Database Methods and Analysis

Advanced Social or Natural Science Courses (6 Credit Hours)

Courses must be at the 3000 level or above:

- Six credit hours from BIOL, CHEM, GEOL, or PHYS courses
  or
- Six credit hours from ECON, PLSC, PSYC, or SOCI courses

Anthropology Electives (9 Credit Hours)

Three courses, with at least 3 credit hours (one course) at the 4000 level or higher.

Total for the Major Only: 50 Credit Hours

Health and Society, B.A.

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

Two concentrations are offered. Track 1, with physiological emphasis (B.S. only), is a bench science track oriented to students pursuing graduate study in medicine, nursing, pharmacy, dentistry and other clinical fields. Track 2, with social and cultural emphasis (B.A. or B.S.), is a behavioral and social science track oriented to students pursuing allied health-related careers, research and graduate study in the allied health professions, including public health, health care administration, psychology, and medical anthropology or sociology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

Students pursuing a major in anthropology may not also pursue a minor in anthropology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

Admission to this program is by competitive application to the department. Applications are accepted twice annually in September and February. Applicants must have completed at least 24 credit hours and the laboratory science courses required for their specific program track. Applicants may only apply twice to the program. Additional information is available on the department's website.

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

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation and Capstone Experience (15–16 Credit Hours)

- ANTH 3306 - Introduction to Medical Anthropology

Social/Behavioral Science:

One course from the following:

- ANTH 2301 - Introductory Cultural Anthropology
- PSYC 1300 - Introduction to Psychology
- SOCI 1300 - Introduction to Sociology

Ethics:

One course from the following:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- PHIL 3376 - Bioethics
- PHIL 3381 - Neuroethics
- RELI 3309 - Bioethics From a Christian Perspective

Capstone Experience:
One course from the following:

- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345/MNO 4345/APSM 4355 – Creating Global and Public Health Impact
- ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
- ANTH 5336 - Health in Cross-Cultural Perspective
- Or other courses as approved by the professor of the proposed course and program director

Laboratory Science for Track 2:
One sequence from the following:

- BIOL 1301 - Introductory Biology
  and
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1300 - Introductory Biology

- CHEM 1301 - Chemistry for Liberal Arts

- CHEM 1303 - General Chemistry
  and
- CHEM 1113 - General Chemistry Laboratory

Concentration Courses (20 Credit Hours)
Track 2: Social and Cultural Emphasis
Core Courses (7 Credit Hours)

- APSM 2441 - Human Anatomy and Physiology I with Laboratory

Methods:
One course from the following:

- ANTH 3345 - Introduction to Ethnographic Methods
- PSYC 3301 - Research Methods in Psychology
- SOCI 3311 - Social Science Research Methods

Elective Courses (13 Credit Hours)
13 credit hours chosen from the following with no more than 12 hours from any single department; at least 9 hours at the 3000 level or higher. Students may take one elective from Track 1 courses, listed in the Health and Society, B.S. requirements, to count as an elective for Track 2.

- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- ANTH 3324 - Rites of Passage: Anthropological Perspectives (SMU-in-Taos)
- ANTH 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 3348 - Health as a Human Right
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 4303 - Political Economy of Health
- ANTH 4307 - Global and Public Health
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345/MNO 4345/APSM 4355 - Creating Global and Public Health Impact

- ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
- ANTH 4381 - Internship in Anthropology
- ANTH 5336 - Health in Cross-Cultural Perspective
- APSM 2442 - Human Anatomy and Physiology II with Laboratory
- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- APSM 4349 - Health Care: From Policy to Practice
- ENGL 3379 - Literary and Cultural Contexts of Disability: Gender, Care, and Justice
- ENGL 3384 - Literature and Medicine
- PHIL 3364 - Philosophy of Biology
- PHIL 3376 - Bioethics
- PSYC 3341 - Social Psychology
- PSYC 3360 - Health Psychology
- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- SOCI 3301/ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- STAT 2331 - Introduction to Statistical Methods
- WGST 3310 - Gender and Human Rights
- WGST 3380 - Human Sexuality

Total for the Major Only: 35-36 Credit Hours

Health and Society, B.S.

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

Two concentrations are offered. Track 1, with physiological emphasis (B.S. only), is a bench science track oriented to students pursuing graduate study in medicine, nursing, pharmacy, dentistry and other clinical fields. Track 2, with social and cultural emphasis (B.A. or B.S.), is a behavioral and social science track oriented to students pursuing allied health-related careers, research and graduate study in the allied health professions, including public health, health care administration, psychology, and medical anthropology or sociology. Students pursing a major in health and society may pursue either a major or minor in anthropology, but only six credit hours may be double-counted.

Admission to this program is by competitive application to the department. Applications are accepted twice annually in September and February. Applicants must have completed at least 24 credit hours and the laboratory science courses required for their specific program track. Applicants may only apply twice to the program. Additional information is available on the department's website.

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

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation and Capstone Experience (15–16 Credit Hours)

- ANTH 3306 - Introduction to Medical Anthropology

Social/Behavioral Science:

One course from the following:

- ANTH 2301 - Introductory Cultural Anthropology
- PSYC 1300 - Introduction to Psychology
- SOCI 1300 - Introduction to Sociology

Ethics:

One course from the following:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- PHIL 3376 - Bioethics
- PHIL 3381 - Neuroethics
- RELI 3309 - Bioethics From a Christian Perspective

Capstone Experience:

One course from the following:

- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345/MNO 4345/APSM 4355 – Creating Global and Public Health Impact
- ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
- ANTH 5336 - Health in Cross-Cultural Perspective
- Or other courses as approved by the professor of the proposed course and program director

Laboratory Science for Track 1:

One sequence from the following:

- BIOL 1301 - Introductory Biology
  and
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- CHEM 1303 - General Chemistry
  and
- CHEM 1113 - General Chemistry Laboratory

Laboratory Science for Track 2:

One sequence from the following:

- BIOL 1301 - Introductory Biology
  and
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1300 - Introductory Biology

- CHEM 1301 - Chemistry for Liberal Arts

- CHEM 1303 - General Chemistry
  and
- CHEM 1113 - General Chemistry Laboratory

Concentration Courses (28 Credit Hours)

Track 1: Physiological Emphasis

Core Courses (6 Credit Hours)

- MATH 1337 - Calculus I
  or
- STAT 2331 - Introduction to Statistical Methods

- PSYC 2332 - Developmental Psychology

Elective Courses (22 Credit Hours)

22 credit hours chosen from the following, with no more than 12 hours from any single department; at least 15 hours at the 3000 level or higher. Students may take one elective from Track 2 courses to count as an elective for Track 1.

- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- ANTH 3324 - Rites of Passage: Anthropological Perspectives (SMU-in-Taos)
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 4307 - Global and Public Health
- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345/MNO 4345/APSM 4355 - Creating Global and Public Health Impact
- ANTH 4381 - Internship in Anthropology
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5336 - Health in Cross-Cultural Perspective
- APSM 2441 - Human Anatomy and Physiology I with Laboratory
- APSM 2442 - Human Anatomy and Physiology II with Laboratory
- APSM 4349 - Health Care: From Policy to Practice
- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab (or BIOL 1402 prior to Fall 2017)
- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- BIOL 4106 - Functional Anatomy and Histology Laboratory
- BIOL 4306 - Human Anatomy with Physiology
- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory
- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory
- PSYC 2351 - Psychopathology
- PSYC 3360 - Health Psychology
- PSYC 4310 - Cognition and the Brain
- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- WGST 3380 - Human Sexuality

Track 2: Social and Cultural Emphasis

Core Courses (7 Credit Hours)

- APSM 2441 - Human Anatomy and Physiology I with Laboratory

Methods:

One course from the following:

- ANTH 3345 - Introduction to Ethnographic Methods
- PSYC 3301 - Research Methods in Psychology
- SOCI 3311 - Social Science Research Methods

Elective Courses (21 Credit Hours)

21 credit hours chosen from the following, with no more than 12 hours from any single department; at least 9 hours at the 3000 level or higher. Students may take one elective from Track 1 courses to count as an elective for Track 2.

- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- ANTH 3324 - Rites of Passage: Anthropological Perspectives (SMU-in-Taos)
- ANTH 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 3348 - Health as a Human Right
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 4303 - Political Economy of Health
- ANTH 4307 - Global and Public Health
- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345/MNO 4345/APSM 4355 - Creating Global and Public Health Impact
- ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
- ANTH 4381 - Internship in Anthropology
- ANTH 5336 - Health in Cross-Cultural Perspective
- APSM 2442 - Human Anatomy and Physiology II with Laboratory
- APSM 4349 - Health Care: From Policy to Practice
- ENGL 3379 - Literary and Cultural Contexts of Disability: Gender, Care, and Justice
- ENGL 3384 - Literature and Medicine
- PHIL 3364 - Philosophy of Biology
- PHIL 3376 - Bioethics
- PSYC 3341 - Social Psychology
- PSYC 3360 - Health Psychology
- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- SOCI 3301/ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- STAT 2331 - Introduction to Statistical Methods
- WGST 3310 - Gender and Human Rights
- WGST 3380 - Human Sexuality

Total for the Major Only: 43-44 Credit Hours

Archaeology Minor

The minor in archaeology provides students with a foundation in the scientific methods, critical thinking and reasoning, interdisciplinarity and the culture history of our species. The minor complements majors in Earth sciences, environmental studies, engineering, history, education, human rights and education.

The minor requires 15 credit hours of coursework. Nine credit hours must be taken in advanced coursework (3000 level and above). A grade of *C*- or better must be earned in all courses taken in fulfillment of the requirements for the archaeology minor. Students may choose to take a topics course (ANTH 3330, ANTH 3331, ANTH 4350, ANTH 4351, ANTH 4352), an independent study course (ANTH 4191, ANTH 4192, ANTH 4291, ANTH 4292, ANTH 4391, ANTH 4392), or an internship course (ANTH 4381) in one of the subfields to count toward the minor. Students pursuing a major in anthropology may not also pursue the archaeology minor.

Requirements for the Minor

Core Course (3 Credit Hours)

- ANTH 2301 - Introductory Cultural Anthropology

Archaeology (12-13 Credit Hours)

Archaeological Concepts (3-4 Credit Hours)

One course from the following:

- ANTH 2302 - People of the Earth: The First Five Million Years
- ANTH 2360 - How to Build a Time Machine: Technology for Reconstructing Our Past
- ANTH 2380 - Cultures at Risk: Human Rights and Heritage Today
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology

Regional Archaeology/Methods and Analysis (9 Credit Hours)

Three courses from the following:

- ANTH 3304 - North American Archaeology
- ANTH 3312 - Mesoamerican Archaeology
- ANTH 3313 - South American Indians of the Past and Present
- ANTH 3315 - Origins of Civilization
- ANTH 3318 - Life in the Ancient Southwest
- ANTH 3321 - Ancient Hawaii
- ANTH 3334 - Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, and Ancient Astronauts
- ANTH 3353 - Indians of North America
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3374 - Cultures and Environments of the Southwest
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 3390 - The Plundered Past: Archaeology's Challenges in the Modern World
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4300 - World Archaeology
- ANTH 4325 - Introduction to Osteology I: Human-Animal Interactions
- ANTH 4333 - Laboratory Methods in Archaeology
- ANTH 4383 - Geoarchaeology
- ANTH 4385 - Pacific Island Archaeology
- ANTH 4386 - The Archaeology of Gender and Sexuality
- ANTH 4387 - Advances in the Practice of Archaeology
- ANTH 4388 - Geospatial Archaeology
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5381 - Field Methods in Archaeology
- ANTH 5382 - Field Methods in Archaeology
- ANTH 5681 - Field Methods in Archaeology

Total: 15-16 Credit Hours

Biomedical Anthropology Minor

The minor in biomedical anthropology will provide students with a foundation in methods, theory and problems in cross-cultural health and health care.

The minor requires 18 credit hours of coursework. Nine credit hours must be taken in advanced coursework (3000 level and above). A grade of *C-* or better must be earned in all courses taken in fulfillment of the requirements for the biomedical anthropology minor. Students may choose to take a topics course (ANTH 3330, ANTH 3331, ANTH 4350, ANTH 4351, ANTH 4352), an independent study course (ANTH 4191, ANTH 4192, ANTH 4291, ANTH 4292, ANTH 4391, ANTH 4392), or an internship course (ANTH 4381) in one of the subfields to count toward the minor. Students pursuing a major in anthropology may not also pursue the biomedical anthropology minor. Students

pursing a major in health and society may pursue a biomedical minor in anthropology, but only six credit hours may be double-counted.

Requirements for the Minor

Core Course (3 Credit Hours)

- ANTH 2301 - Introductory Cultural Anthropology

Biomedical Anthropology (15 Credit Hours)

Core Course (3 Credit Hours)

One from the following:

- ANTH 3306 - Introduction to Medical Anthropology
- ANTH 5336 - Health in Cross-Cultural Perspective

Elective Courses (12 Credit Hours)

Four courses from the following:

- ANTH 2381 - PaleoParents: The Evolution of Human Families
- ANTH 2382 - Human Nature: Who are we? And how did we get this way?
- ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- ANTH 3306 - Introduction to Medical Anthropology
- ANTH 3308 - Evolutionary Approaches to Health and Disease
- ANTH 3324 - Rites of Passage: Anthropological Perspectives
- ANTH 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3348 - Health as a Human Right
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 4303 - Political Economy of Health
- ANTH 4307 - Global and Public Health
- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345 - Creating Global and Public Health Impact
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5336 - Health in Cross-Cultural Perspective

OR three ANTH courses listed above and one from the following:

- PHIL 3376 - Bioethics
- PSYC 3360 - Health Psychology
- WGST 3380 - Human Sexuality

Total: 18 Credit Hours

Cultural Anthropology Minor

The minor in cultural anthropology provides students with essential cultural competency and critical thinking skill sets needed in today's global community. The minor pairs well with art, business, economics, education, engineering, biomedical, science and other majors.

The minor requires 15 credit hours of coursework. Nine credit hours must be taken in advanced coursework (3000 level and above). A grade of *C*- or better must be earned in all courses taken in fulfillment of the requirements for the cultural anthropology minor. Students may choose to take a topics course (ANTH 3330, ANTH 3331, ANTH 4350, ANTH 4351, ANTH 4352), an independent study course (ANTH 4191, ANTH 4192, ANTH 4291, ANTH

4292, ANTH 4391, ANTH 4392), or an internship course (ANTH 4381) in one of the subfields to count toward the minor. Students pursuing a major in anthropology may not also pursue the cultural anthropology minor.

Requirements for the Minor

Core Course (3 Credit Hours)

- ANTH 2301 - Introductory Cultural Anthropology

Cultural Anthropology (12 Credit Hours)

Cultural Concepts (6 Credit Hours)

Two courses from the following:

- ANTH 2370 - Global Processes and Problems: An Introduction
- ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- ANTH 3306 - Introduction to Medical Anthropology
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3319 - Humanity and Global Environmental Change
- ANTH 3324 - Rites of Passage: Anthropological Perspectives
- ANTH 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3344 - Cultural Aspects of Business
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 3348 - Health as a Human Right
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3362 - Science and Technology in an Anthropological Perspective
- ANTH 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4305 - Applied Anthropology
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4342 - Resilience: Ethnography, Ethics, and Care
- ANTH 4343 - Biomedicine, Culture, and Power
- ANTH 4344/APSM 4344/MNO 4344 – Pandemics! The Science of Disease Spread, Prevention, and Control
- ANTH 4345 - Creating Global and Public Health Impact
- ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
- ANTH 4384 - Political Economy: Global Processes and Problems
- ANTH 5336 - Health in Cross-Cultural Perspective
- ANTH 5344 - Research Methods in Ethnology

Regional Ethnography (6 Credit Hours)

Two courses from the following:

- ANTH 3314 - Peoples of Africa
- ANTH 3323 - East Asia in Motion
- ANTH 3346 - Culture and Diversity in American Life
- ANTH 3353 - Indians of North America
- ANTH 3354 - Latin America: Peoples, Places, and Power
- ANTH 3355 - Society and Culture in Contemporary Europe
- ANTH 3358 - From Gold to Gambling: Native Americans of the Southwest

- ANTH 3359 - Peoples and Cultures of the Middle East

Total: 15 Credit Hours

Environmental Anthropology Minor

The minor in environmental anthropology provides students with a foundation in concepts and theories about human-environment relationships, an understanding of human-environment interaction from the past to the present, and prepares them to be environmentally conscious global citizens moving forward.

The minor requires 15 credit hours of coursework. Nine credit hours must be taken in advanced coursework (3000 level and above). A grade of *C*- or better must be earned in all courses taken in fulfillment of the minor. No more than one course (3 credit hours) satisfying the environmental anthropology minor can also satisfy another program. Students pursuing a major in anthropology may not also pursue the environmental anthropology minor.

Requirements for the Minor

Core Courses (9 Credit Hours)

- ANTH 1321 - Anthropology: A Four-Field Approach
  or
- ANTH 2301 - Introductory Cultural Anthropology

- ANTH 3319 - Humanity and Global Environmental Change
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking

Elective Courses (6 Credit Hours)

Two courses from the following, with at least one course in ANTH:

- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3374 - Cultures and Environments of the Southwest
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4325 - Introduction to Osteology I: Human-Animal Interactions
- ANTH 4383 - Geoarchaeology
- ANTH 4388 - Geospatial Archaeology
- ECO 4355 - Environmental Economics
- GEOL 3307 - Ecology
- GEOL 3353 - Modern and Ancient Climates
- HIST 3309 - North American Environmental History
- PHIL 3379 - Environmental Ethics
- PLSC 3333 - Environmental Policy

Total: 15 Credit Hours

General Anthropology Minor

The minor in general anthropology provides students with essential cultural competency and critical thinking skill sets needed in today's global community. The minor pairs well with art, business, economics, education, engineering, biomedical science and other majors.

The minor requires 15 credit hours of coursework. Nine credit hours must be taken in advanced coursework (3000 level and above). A grade of *C*- or better must be earned in all courses taken in fulfillment of the requirements for the general anthropology minor. Students may choose to take a topics course (ANTH 3330, ANTH 3331, ANTH

4350, ANTH 4351, ANTH 4352), an independent study course (ANTH 4191, ANTH 4192, ANTH 4291, ANTH 4292, ANTH 4391, ANTH 4392), or an internship course (ANTH 4381) in one of the subfields to count toward the minor. Students pursuing a major in anthropology may not also pursue the general anthropology minor.

Requirements for the Minor

Core Course (3 Credit Hours)

- ANTH 2301 - Introductory Cultural Anthropology

General Anthropology (12 Credit Hours)

Archaeology (3 Credit Hours)

One course from the list of Archaeology courses.

Cultural Anthropology (3 Credit Hours)

One course from the list of Cultural Anthropology courses.

Methods and Analysis (3 Credit Hours)

One course from the following:

- ANTH 3324 - Rites of Passage: Anthropological Perspectives
- ANTH 3334 - Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, and Ancient Astronauts
- ANTH 3345 - Introduction to Ethnographic Methods
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4325 - Introduction to Osteology I: Human-Animal Interactions
- ANTH 4333 - Laboratory Methods in Archaeology
- ANTH 4383 - Geoarchaeology
- ANTH 4391 - Independent Study and Research (data analysis topic)
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton
- ANTH 5344 - Research Methods in Ethnology
- ANTH 5381 - Field Methods in Archaeology
- ANTH 5382 - Field Methods in Archaeology
- ANTH 5681 - Field Methods in Archaeology
- SOCI 3311 - Social Science Research Methods
- SOCI 3312 - Database Methods and Analysis

Biological Anthropology (3 Credit Hours)

One course from the following:

- ANTH 2381 - PaleoParents: The Evolution of Human Families
- ANTH 2382 - Human Nature: Who are we? And how did we get this way?
- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 3302 - Monkeys and Apes: The Nonhuman Primates
- ANTH 3308 - Evolutionary Approaches to Health and Disease
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 5310 - Human Osteology: Biology of the Human Skeleton

Total: 15 Credit Hours

Anthropology Courses

Note: All 2000-level and 3000-level anthropology courses are open to first-year students. Undergraduate students may take 4000-level and 5000-level courses; however, undergraduate students must have introductory coursework

in the appropriate subfield or permission of the department. Anthropology courses are grouped into subfields as follows.

General	ANTH 1321, ANTH 4399, ANTH 5334, ANTH 5335
Archaeology	ANTH 2302, ANTH 2360, ANTH 2380, ANTH 2463, ANTH 3304, ANTH 3312, ANTH 3313, ANTH 3315, ANTH 3318, ANTH 3321, ANTH 3334, ANTH 3353, ANTH 3370, ANTH 3373, ANTH 3374, ANTH 3384, ANTH 3388, ANTH 3390, ANTH 3399, ANTH 4300, ANTH 4325, ANTH 4333, ANTH 4383, ANTH 4385, ANTH 4386, ANTH 4387, ANTH 4388, ANTH 5310, ANTH 5381, ANTH 5382, ANTH 5681
Cultural/Social Anthropology	ANTH 2301, ANTH 2370, ANTH 3301, ANTH 3303, ANTH 3306, ANTH 3310, ANTH 3314, ANTH 3319, ANTH 3323, ANTH 3324, ANTH 3328, ANTH 3329, ANTH 3333, ANTH 3336, ANTH 3344, ANTH 3345, ANTH 3346, ANTH 3348, ANTH 3350, ANTH 3353, ANTH 3354, ANTH 3355, ANTH 3358, ANTH 3359, ANTH 3362, ANTH 3366, ANTH 3368, ANTH 3385, ANTH 4303, ANTH 4304, ANTH 4305, ANTH 4307, ANTH 4309, ANTH 4342, ANTH 4343, ANTH 4344, ANTH 4345, ANTH 4348, ANTH 4384, ANTH 5336, ANTH 5344
Anthropological Linguistics	ANTH 3361
Biological Anthropology	ANTH 2381, ANTH 2382, ANTH 2415, ANTH 3302, ANTH 3307, ANTH 3308, ANTH 3350, ANTH 3351, ANTH 5310

ANTH 1321 - Anthropology: A Four-Field Approach
Credits: 3
Introduces the four subdisciplines of anthropology: sociocultural anthropology, linguistics, archaeology, and biological anthropology. Includes a series of hands-on learning assignments, in-class activities and discussions, and writing assignments.

ANTH 2130 - Special Topics Abroad
Credits: 1
Offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 2230 - Special Topics Abroad
Credits: 2
Offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 2301 - Introductory Cultural Anthropology
Credits: 3
Basic theories and methods of cultural anthropology. Explores variations in cultural values, social practices, religion, rules of law, etc., in different cultures around the world. Focuses on understanding the forces that shape cultures and societies, and how they adapt to a rapidly changing world.

ANTH 2302 - People of the Earth: The First Five Million Years
Credits: 3
Human biological and cultural evolution, from the appearance of ancestral humans in Africa, to agricultural origins and the rise of the world's great civilizations.

ANTH 2330 - Special Topics Abroad
Credits: 3
Offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 2360 - How to Build a Time Machine: Technology for Reconstructing Our Past
Credits: 3
Impact of technological change on archaeology and more broadly on how modern people view the distant past.

ANTH 2370 - Global Processes and Problems: An Introduction
Credits: 3
Introduction to the study of globalization. Covers historical, political, environmental, and social issues. Rooted in anthropology but interdisciplinary in outlook.

ANTH 2380 - Cultures at Risk: Human Rights and Heritage Today
Credits: 3
Introduces the social and political contexts of archaeological research in heritage and human rights arenas, with emphasis on ethics and the law.

ANTH 2381 - PaleoParents: The Evolution of Human Families
Credits: 3
Families are fundamental to our identities as people but also something that is easily recognizable in other animals. What happened in our evolution that shaped how humans form families?

ANTH 2382 - Human Nature: Who are we? And how did we get this way?
Credits: 3
Is there such a thing as human nature? And if there is, how would we recognize it when we see it? Human nature takes an interdisciplinary approach to understanding why humans are the way we are.

ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
Credits: 4
Humans are the products of their evolutionary past. Employing evidence from the human fossil record, the archaeological record, and the genetics of both living and extinct humans, this class explores what is known, what is not known, and what can come to be known about human history in deep time. Beginning with developing an understanding of how evolution operates, students examine the evolution of the primates, paying particular attention to our own group - the hominins.

ANTH 2463 - The Science of Our Past: An Introduction to Archaeology
Credits: 4
Covers how and why archaeologists study evidence of past human behavior. Required labs emphasize hands-on analyses of artifacts and other archaeological materials.

ANTH 3130 - Special Topics Abroad
Credits: 1
Offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 3230 - Special Topics Abroad
Credits: 2
Offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
Credits: 3
A cross-cultural exploration of cultures and organization of medical systems, economic development and the global exportation of biomedicine, and ethical dilemmas associated with medical technologies and global disparities in health.

ANTH 3302 - Monkeys and Apes: The Nonhuman Primates
Credits: 3
Introduces the study of nonhuman primates, from prosimians to the great apes. Explores questions of taxonomy, aspects of social behavior, and patterns of communication.

ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
Credits: 3
Examines the interplay of culture, mind, and self in various Western and non-Western societies. Cognition, emotion, altered states, "brain sciences," and mental health and illness are analyzed in a cross-cultural perspective.

ANTH 3304 - North American Archaeology
Credits: 3
North America's human past, from the earliest colonization by ice age peoples and their descendants who colonized the continent, to the clash of cultures that followed the arrival of Europeans in 1492.

ANTH 3306 - Introduction to Medical Anthropology
Credits: 3
Provides an overview of methods and topics in medical anthropology, an interdisciplinary field that explores health, illness, and systems of healing through holistic and cross–cultural study. Case studies from a diversity of human societies and cultures around the globe are used to challenge assumptions of student understanding. Offers several University Curriculum components, gives students a robust introduction to this specialized sub–field within Anthropology, and addresses many of the foundational concepts on the MCAT.

ANTH 3308 - Evolutionary Approaches to Health and Disease
Credits: 3
The evolutionary history of our species is used increasingly in modern medicine to understand the genetic roots of illness.

ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
Credits: 3
Cross-cultural and historical comparison of the life experiences of women and men in the areas of family, marriage and kinship, economic and political participation, sexuality, reproduction, ritual, and religion.

ANTH 3312 - Mesoamerican Archaeology
Credits: 3
Examines development of civilizations from village life to the great empires of Mexico. How civilizations begin, grow, change, and collapse.

ANTH 3313 - South American Indians of the Past and Present
Credits: 3
A survey of the archaeology and ethnology of indigenous South Americans, from c. 13,000 years ago to recent times, focusing on environments, subsistence, and related levels of sociopolitical integration from Tierra del Fuego to the Amazon basin and the Andes.

ANTH 3314 - Peoples of Africa
Credits: 3
A contemporary study of the cultures and social structures of sub-Saharan African peoples and an examination of the dynamics of contemporary African societies.

ANTH 3315 - Origins of Civilization
Credits: 3
Considers those cultural and historic factors that led to the development of agriculture and the first urban states in Egypt and Mesopotamia.

ANTH 3318 - Life in the Ancient Southwest
Credits: 3
Explores the evidence of thousands of years of human cultural change that archaeologists have uncovered across the American Southwest. Ranges in time from the first appearance of humans to the time of Pueblo civilization.

ANTH 3319 - Humanity and Global Environmental Change
Credits: 3
Examines interaction between human populations and their environments. Explores relationships among population size, technology, climate, and behavior in various living societies worldwide. Particular attention to current environmental problems.

ANTH 3321 - Ancient Hawaii
Credits: 3
Covers the origins of traditional Hawaiian society as known through archaeology, historical documents, and oral history, as well the history of Hawaii from European contact to statehood.

ANTH 3323 - East Asia in Motion
Credits: 3
Anthropological examination of East Asia, focusing on China, Korea, and Japan. Topics include the family, economics, popular culture, and the body. Focus on processes of cultural transformation and the ways globalization, economic transformations, and political events affected change.

ANTH 3324 - Rites of Passage: Anthropological Perspectives
Credits: 3
Students study rites of passage across cultures and their meaning for human adaptation and flourishing, as well as experience their own rite of passage in guided lab work using anthropological methods.

ANTH 3328 - Gender Violence: Anthropological Perspectives
Credits: 3
Examines how gender-based violence shapes individual subjective and collective experiences, material realities, and psychological states, as well as the impacts of interventions on intimate, interpersonal, local, and global scales.

ANTH 3329 - Contesting Development: Global and Local Impacts and Human Rights
Credits: 3

Critiques and discusses the impact of "economic development," within a capitalist/globalization framework, on people's lives and communities across the developing world. Examines how capitalist development poses challenges to human rights, and debates various political and economic positions on the causes, human impacts, and possible solutions to those challenges. Impacts including hunger, poverty, environmental degradation, global warming, spread of new diseases, ethnic conflict and ethnocide, terrorism, and religious fundamentalism are discussed. Also examines and debates possible alternative forms of development and modernization.

ANTH 3330 - Special Topics in Anthropology
Credits: 3
An in-depth look at particular problems and issues in contemporary anthropology. Topics vary. This course is repeatable under different topics.

ANTH 3331 - Special Topics in Anthropology
Credits: 3
An in-depth look at particular problems and issues in contemporary anthropology. Topics vary. This course is repeatable under different topics.

ANTH 3333 - The Immigrant Experience
Credits: 3
Explores the historical, social, cultural, and political dimensions of the U.S. immigrant experience and Americans' attitudes toward immigrants. Examines issues such as bilingual education and illegal immigration.

ANTH 3334 - Fantastic Archaeology and Pseudoscience: Lost Tribes, Sunken Continents, and Ancient Astronauts
Credits: 3
Investigates various claims (e.g., ancient astronauts have visited Earth, archaeologists are not revealing secrets about the Maya calendar, and creation theory is a scientific alternative to the theory of human evolution) and how archaeologists respond to them.

ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
Credits: 3
An analysis of the impact of globalizing forces on women's lives and identities, as well as on patterns of gender relations and ideology in various cultures around the world.

ANTH 3340 - Special Topics Abroad
Credits: 3
Courses offered through SMU-approved international programs. Prior departmental approval required. May be repeated for SMU credit under a different subtitle. Maximum of 6 credit hours permissible toward the B.A. in anthropology and/or the B.S. in anthropology.

ANTH 3344 - Cultural Aspects of Business
Credits: 3
Explores the cultural aspects of business and entrepreneurship at home and abroad. Also, addresses the relationship between anthropology and business, examining business in a holistic context.

ANTH 3345 - Introduction to Ethnographic Methods
Credits: 3
Introduces the methods and tools of ethnographic research. Relevant for students from a variety of disciplines. Topics include how to ask a research question, the conceptual work behind research, writing a research proposal, observation methods, interview techniques, data coding, ethnographic writing, and visual methods.

ANTH 3346 - Culture and Diversity in American Life
Credits: 3
An overview of contemporary U.S. culture, with an emphasis on how diversity (e.g., ethnicity, class, religion, and gender) is expressed in communities, in regions, and in the nation.

ANTH 3348 - Health as a Human Right
Credits: 3
Examines the concept of human rights critically, with an eye for cross-cultural variation and a particular focus on health-related rights.

ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
Credits: 3
Offers bio–cultural perspective on food that blends biological and medical information about human nutrition and development with an exploration of the global markets and cultures of eating.

ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
Credits: 3
Introduction to the identification of human remains, including conditions of preservation and decay. Estimating sex, stature, age, and ethnicity. Identifying pathology, trauma, and other causes of death.

ANTH 3353 - Indians of North America
Credits: 3
A survey of American-Indian and Eskimo life, past and present, with emphasis on the interaction of Indians and whites since 1492 and on contemporary American-Indian problems and enterprises: reservation and urban life, gambling, health care, and legal rights.

ANTH 3354 - Latin America: Peoples, Places, and Power
Credits: 3
Examines the development of Latin America in the context of global transformations since the 16th century. Special attention is given to the interaction of local communities with regional, national, and international systems of power.

ANTH 3355 - Society and Culture in Contemporary Europe
Credits: 3
Anthropological survey of social and cultural dimensions of contemporary European society. Explores unity and diversity within the region, and the role of gender, religion, class, ethnicity, and nationalism in structuring the lives of Europeans.

ANTH 3358 - From Gold to Gambling: Native Americans of the Southwest
Credits: 3
An introduction to the non-Pueblo and Pueblo peoples of the Greater Southwest, with a focus on Indian-Indian and Indian-Euroamerican relations and the resultant transformations. Topics include the clash of cultures, tourism, gambling, legal rights, and urbanism.

ANTH 3359 - Peoples and Cultures of the Middle East
Credits: 3
This course employs the lens of cultural anthropology to explore the social, cultural, familial, religious, and political lives of Middle Easterners from a wide variety of countries and backgrounds.

ANTH 3361 - Language in Culture and Society
Credits: 3
An investigation of social and cultural factors affecting the use of language. Topics include linguistic variation, black English, women's language, and body language.

ANTH 3362 - Science and Technology in an Anthropological Perspective
Credits: 3
Anthropological study of science and technology. Focuses on science as a form of knowledge and the impact of technology.

ANTH 3366 - Magic, Myth, and Religion Across Cultures
Credits: 3
A cross-cultural and comparative exploration of religion, ritual, magic, and supernatural belief systems. Examines how religion permeates other aspects of society and culture.

ANTH 3368 - Global Urbanism: Implosions/Explosions
Credits: 3
An introduction to urban life and culture around the world, including how to study cities, who inhabits cities, and the special features of city places and spaces.

ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
Credits: 3
Fire has been a transformative process in Earth's history. Today, fire threatens homes and lives on every continent. This course explores the varied roles of fire on Earth.

ANTH 3373 - Living with Fire: Past, Present, Future
Credits: 3
Explores the historical and contemporary challenges of living with wildfires.

ANTH 3374 - Cultures and Environments of the Southwest
Credits: 3
Patterns of land and resource use in prehistoric and early historic times in the Southwest. The focus is on the mutual influence of cultures and resources in the northern Rio Grande region.

ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
Credits: 3
Using interdisciplinary archaeological, anthropological, and historical case studies from around the world, this course provides detailed examinations of human impacts on the environment over the last 400,000 years.

ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
Credits: 3
Contemporary sustainability depends on an appreciation for the complex interactions between systems of people and nature. Introduces students to systems and resilience thinking to approach contemporary sustainability problems in new ways.

ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
Credits: 3
An examination of the origins and development of human aggression, violence, and warfare using interdisciplinary data and theories from prehistory, ethnology, history, and political science.

ANTH 3390 - The Plundered Past: Archaeology's Challenges in the Modern World
Credits: 3
Provides an interdisciplinary understanding of the importance societies place on knowing, preserving, and altering evidence of the past. Special emphasis is placed on archaeology's role in understanding and preserving the past.

ANTH 3399 - In Search of Ice Age Americans
Credits: 3
The peopling of America during the Ice Age, reconstructed by various disciplines (e.g., archaeology, linguistics, and molecular biology), and what that reconstruction reveals about how people adapted to a truly new world.

ANTH 4091 - Undergraduate Research
Credits: 0

ANTH 4191 - Independent Study and Research
Credits: 1
For advanced undergraduates. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4192 - Independent Study and Research
Credits: 1
For advanced undergraduates. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4291 - Independent Study and Research
Credits: 2
For advanced undergraduates. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4292 - Independent Study and Research
Credits: 2
For advanced undergraduates. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4300 - World Archaeology
Credits: 3
An archaeological overview of the human trajectory and sociocultural development over time, beginning with the origins of modern humans and then looking at human interactions with specific environments.

ANTH 4303 - Political Economy of Health
Credits: 3
Explores topics in health and healing from a political economy perspective. Addresses social and economic factors influencing culture change, health, and healing practices within a society. Examines health inequities around the globe. Prerequisites: ANTH 3301, ANTH 3306 or approval of instructor.

ANTH 4304 - Migration, Ethnicity, and Nationalism
Credits: 3
Examines three interrelated topics: migration, ethnicity, and nationalism. Focuses on major theoretical positions and on specific ethnographic cases. Prerequisite: 18 hours of anthropology or permission of the instructor for nonanthropology majors.

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

ANTH 4307 - Global and Public Health
Credits: 3
Provides an overview of issues in international health, with a focus on contributions of anthropology and anthropologists to international public health issues. Prerequisite: ANTH 3301, ANTH 3306, or approval of instructor.

ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
Credits: 3
An examination of human rights issues among contemporary indigenous peoples, especially the impact on their cultures and societies from governmental and nongovernmental organizations, large-scale development programs, and global tourism.

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

ANTH 4333 - Laboratory Methods in Archaeology
Credits: 3
Classification and analysis of archaeological materials (various topics). Prerequisites: Advanced standing and ANTH 5381, ANTH 5382, ANTH 5681, or ANTH 5981, or approval of instructor.

ANTH 4342 - Resilience: Ethnography, Ethics, and Care
Credits: 3
Examines theories, practices of, and research on resilience. Students apply ethnographic methodologies to understand human responses to contemporary health challenges and as a mode of ethical care.

ANTH 4343 - Biomedicine, Culture, and Power
Credits: 3
Examines the epistemology and history of biomedicine, medical bureaucracy, professionalism, medical education, alternative and popular medicine, economics, and health care. Prerequisites: ANTH 3301, ANTH 3306 or approval of instructor.

ANTH 4344 - Pandemics! The Science of Disease Spread, Prevention, and Control
Credits: 3
Explores the science of epidemic and pandemic prevention to treatment and control. Highlights what diseases from the bubonic plague to COVID 19 have to teach us.

ANTH 4345 - Creating Global and Public Health Impact
Credits: 3
Interdisciplinary approach to creating sustainable impact in global, public, and population health. Taught by engaging discussions, case studies, and helping local health organizations solve difficult institutional and community challenges.

ANTH 4348 - Toxic Topics: Anthropology, Environment, and Health
Credits: 3
Engages students in the anthropological study of the relationships between environment, health, and society. Designed around environmental issues, including climate change, water, food, energy, and other topics.

ANTH 4350 - Special Topics in Anthropology
Credits: 3
An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

ANTH 4351 - Special Topics in Anthropology
Credits: 3
An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

ANTH 4352 - Special Topics in Anthropology
Credits: 3
An in-depth look at particular problems and issues in contemporary anthropology. Topics will vary.

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

ANTH 4383 - Geoarchaeology
Credits: 3
Advanced survey of earth science methods and techniques applied to archaeological research problems.

ANTH 4384 - Political Economy: Global Processes and Problems
Credits: 3
Exploration of foundational concepts in political economy, and topics such as globalization and development. Readings include classical texts and contemporary ethnography to understand how scholars conceptualize the politico-economic domain and how human actors animate it.

ANTH 4385 - Pacific Island Archaeology
Credits: 3
Seminar on the use of coastlines, oceans, rivers, marshes, lakes, and islands throughout human history. Prerequisite: ANTH 2302 or ANTH 2463, or permission of instructor.

ANTH 4386 - The Archaeology of Gender and Sexuality
Credits: 3
Explores how and why archaeologists study gender and sexual identities in the past and discovers the diversity in these institutions across cultures through time.

ANTH 4387 - Advances in the Practice of Archaeology
Credits: 3
Introduces students to applied and cultural resource management archaeology, including the laws, ethics, procedures, and expectations for the public and private spheres of archaeological practice.

ANTH 4388 - Geospatial Archaeology
Credits: 3
Methods-focused course that covers how archaeologists apply spatial technology in research.

ANTH 4390 - Current Issues in Anthropology
Credits: 3
Seminar on selected anthropological topics.

ANTH 4391 - Independent Study and Research
Credits: 3
For advanced undergraduates. The department also offers 1- and 2-hour alternatives. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4392 - Independent Study and Research
Credits: 3
For advanced undergraduates. The department also offers 1- and 2-hour alternatives. Prerequisite: Approval of the director of undergraduate studies and a faculty sponsor.

ANTH 4399 - Integrated Themes in Anthropology
Credits: 3
Integrates the different domains in anthropology for an in-depth examination of central problems or theoretical perspectives in anthropology. This is the capstone course in anthropology and is recommended for juniors and seniors in the major.

ANTH 5310 - Human Osteology: Biology of the Human Skeleton
Credits: 3
Analysis of the human musculoskeletal system in both forensic and ancient contexts. In this laboratory course, students will learn the measurement and assessment of sex, age, race and stature.

ANTH 5334 - History of Anthropology, Part One
Credits: 3
Analytical history of anthropology from the Classical period to the 20th century. Explains the content and development of theory, method, and interpretation.

ANTH 5335 - History of Anthropology, Part Two
Credits: 3
Traces the theoretical developments in ethnology and archaeology from 1960 to the present, with intense readings and a focus on the potential utility of theoretical coherence in the discipline.

ANTH 5336 - Health in Cross-Cultural Perspective
Credits: 3
Cross-cultural study of the cultural construction and social organization of medical systems in preindustrial and industrialized societies, including the political economy of health, ethnomedicine, international health, ethnopharmacology, and bioethics. Prerequisites: ANTH 3301, ANTH 3306 or approval of instructor.

ANTH 5344 - Research Methods in Ethnology
Credits: 3
Examination of methodologies and techniques appropriate for different types of ethnological research.

ANTH 5381 - Field Methods in Archaeology
Credits: 3
Methods of excavation, survey, site analysis, and interpretation used in archaeological research. Participants also engage in discussions and written responses regarding the ethics and responsibilities of working with indigenous communities.

ANTH 5382 - Field Methods in Archaeology
Credits: 3
Methods of excavation, recording, and interpretation used in archaeological research. Students may petition to have this course fulfill the lab science requirement. (Fort Burgwin Research Center)

ANTH 5681 - Field Methods in Archaeology
Credits: 6
Participants are engaged in all aspects of archaeological field and laboratory research, including excavation, recording of finds, survey mapping of sites, laboratory analyses of archaeological materials, and interpretation of intact archaeological contexts. (Fort Burgwin Research Center)

ANTH 5981 - Field Methods in Archaeology
Credits: 9
Participants are engaged in all aspects of archaeological field and laboratory research, including excavation, recording of finds, survey mapping of sites, laboratory analyses of archaeological materials, and interpretation of intact archaeological contexts. (Fort Burgwin Research Center)

Biological Sciences

www.smu.edu/biology

Professor Richard Jones, **Department Chair**

Professors: Richard Jones, Steven Vik, Pia Vogel
Associate Professors: Albert Edward Glasscock, Robert Harrod, John Wise (Director of Undergraduate Studies)
Assistant Professors: Amy Brewster, Adam Norris, Zhihao Wu
Lecturers: Bianca Batista, Alejandro d'Brot
Senior Lecturers: Carolyn Harrod, Eva Oberdörster
Research Associate Professor: Svetlana Radyuk

Departmental Distinction

A biological sciences major with sufficiently high academic standing may graduate with departmental distinction by successfully completing a special program of study that includes advanced coursework, research and a senior thesis under the direction of a member of the departmental faculty. To graduate with departmental distinction, a student must be working toward a B.S. degree and must submit an application to the Undergraduate Studies Committee of the department. At the time of the application, the student must have begun a research project with a departmental faculty member, and must have completed at least 14 credit hours of biological sciences, including at least six advanced hours (3000 level and above), with a GPA in these courses of at least 3.500 and an overall GPA of at least 3.500. For students who have transferred to SMU, two grade point averages will be calculated: one for all work attempted and one for work completed through enrollment at SMU. Admission to the program will be based on the lower of the two averages.

With departmental approval, the student will enroll for BIOL 4398, and continue to work on the distinction research project. Upon completion of this course with a grade of *B+* or better, the student has the option to enroll in BIOL 4399 (pass/fail). On the basis of this research project, an oral presentation will be made to the faculty, and a senior thesis or review article will be written. In addition, three 4000- or 5000-level courses must be completed: one from BIOL 4319, BIOL 4331, BIOL 4370, and at least two from BIOL 5304, BIOL 5305, BIOL 5310, BIOL 5311, BIOL 5325, BIOL 5340. Completion of these requirements and maintenance of a 3.500 GPA for all biological sciences courses attempted will determine if the B.S. degree will be awarded with departmental distinction.

Biological Sciences B.S. - Molecular and Cell Biology, M.S.

The primary goal of the combined B.S.-M.S. degree is to encourage and better prepare undergraduates for careers in biological research. The accelerated pathway permits students to complete the requirements for the B.S. degree in biological sciences and the requirements for the M.S. degree in molecular and cell biology in a total of five years.

Students need to complete most corequisites and the University's Common Curriculum requirements in a timely fashion, preferably by the end of their junior year. The calculus and/or statistics corequirement should be completed by the end of the sophomore year. All chemistry and physics corequirements should be completed by the end of the junior year. Most advanced biology electives, including the biological chemistry course BIOL 5310, also should be completed by the end of the junior year because the senior year will be largely filled with 6000-level biology classes.

In addition, students are expected to be engaged in full-time research in the lab of a faculty member during summers following their sophomore, junior and senior years, and to continue their research throughout the academic year. During the academic year, students may receive course credit for their research (BIOL 2101 - Introductory Undergraduate Research, BIOL 2102 - Introductory Research II and/or BIOL 3398 - Undergraduate Research I, BIOL 3399 - Undergraduate Research II.

Requirements for the M.S. portion of the B.S.-M.S. degree will be the same as for the standard M.S. degree in molecular and cellular biology. During the fifth year, students will continue taking graduate courses and complete the research portion of the M.S. degree. By the end of the fifth year, students will write a monograph describing their research and give an oral presentation to the department.

Admission

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

Courses

Students should refer to the Biological Sciences section of the Undergraduate Catalog for the B.S. degree requirements, which include a minimum of 120 credit hours and include completion of the University's Common Curriculum:

- Biological Sciences, B.S.

Students should refer to the Biological Sciences section of the Graduate Catalog for the M.S. degree requirements:

- Molecular and Cell Biology, M.S.

Biological Sciences, B.A.

The B.A. degree program is designed for students who wish to couple training in the biological sciences with a broad liberal arts program. Students who are preparing for medical or dental school should consult with the prehealth adviser about additional science requirements.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Biological Sciences (26 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- At least 12 additional credit hours of advanced BIOL courses, with at least two courses with labs and at least one course at the 4000 or 5000 level

Chemistry (12 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

Total for the Major Only: 38 Credit Hours

Biological Sciences, B.S.

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

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Biological Sciences (34 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- At least 20 additional credit hours of advanced BIOL courses, with at least two courses with labs and at least one course at the 4000 or 5000 level

Chemistry (16 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

Mathematics (6 Credit Hours)

- MATH 1337 - Calculus I
  and
- MATH 1338 - Calculus II or STAT 2331 - Introduction to Statistical Methods
  or
- MATH 1340 - Consolidated Calculus

Physics (8 Credit Hours)

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

Total for the Major Only: 64 Credit Hours

Biological Sciences Minor

Students who minor in biological sciences must complete all advanced courses (3000 level and above) through enrollment at SMU. A student may not earn minors in both biology and the health sciences.

Requirements for the Minor

Biological Sciences (17 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- At least 3 additional credit hours of an advanced BIOL course

Chemistry (8 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

Total: 25 Credit Hours

Biological Sciences Courses

Courses for Nonscience Majors. BIOL 1300, BIOL 1305, BIOL 1308 and BIOL 1310 are designed to satisfy the University-wide requirements of nonscience students. BIOL 1300 is not open to students who have earned prior credit in BIOL 1301, and BIOL 1305, BIOL 1308, BIOL 1310 are not open to students who have earned prior credit in BIOL 1302. Non-science majors should note that BIOL 1301, BIOL 1302 may also be taken to satisfy University-wide requirements. BIOL 2441 and BIOL 2442 may be taken by nonscience majors, but may not be taken by Biology majors or minors.

Courses for Biology Majors. Students who wish to earn the B.A. or B.S. degree in biology are encouraged to complete BIOL 1301/BIOL 1101, BIOL 1302/BIOL 1102 and CHEM 1303, CHEM 1304 (with labs) in their freshman year. However, with the approval of an academic adviser, a student may postpone BIOL 1301, BIOL 1302, for one or two terms. The introductory biology courses are the minimum prerequisite for all advanced biology courses. The general chemistry courses are a prerequisite for most advanced biology courses.

Special Courses. BIOL 2101, BIOL 2102, BIOL 2185, BIOL 3385, BIOL 3398, BIOL 3399, BIOL 4398 and BIOL 4399 are research courses. BIOL 1305, BIOL 1308, BIOL 1310, BIOL 3343, BIOL 3347, BIOL 3354, BIOL 5358 and BIOL 5359 are SMU-in-Taos courses.

BIOL 1101 - Introductory Biology Lab

Credits: 1

Standard laboratory techniques are utilized to study living organisms, with an emphasis on cells as the components of life. One 3-hour laboratory each week. Corequisite: BIOL 1301.

BIOL 1102 - Introductory Biology Lab
Credits: 1
A practical study of the diversity of living organisms with respect to anatomy, ecology, and evolution. One 3-hour laboratory each week. Corequisite: BIOL 1302.

BIOL 1300 - Introductory Biology
Credits: 3
An introduction to the major concepts of biological thought for the nonscience major. Includes the equivalent of one laboratory session per week. BIOL 1300 is not open to students with prior credit in BIOL 1301 or BIOL 1401.

BIOL 1301 - Introductory Biology
Credits: 3
Introduction to the study of living organisms: ecology, evolution, diversity, and physiology. BIOL 1301/1101 and BIOL 1302/1102 are prerequisites to all advanced courses in biological sciences. Prerequisite or corequisite: BIOL 1101.

BIOL 1302 - Introductory Biology
Credits: 3
Introduction to the study of living organisms: ecology, evolution, diversity, and physiology. BIOL 1301/1101 and BIOL 1302/1102 are prerequisites to all advanced courses in biological sciences. Prerequisite or Corequisite: BIOL 1102.

BIOL 1305 - The Natural Environment
Credits: 3
An introduction to major environments and their resident populations for the nonscience major. Includes the equivalent of one laboratory session each week. BIOL 1305 is not open to students with prior credit in BIOL 1402. (SMU-in-Taos)

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

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

BIOL 2085 - Internship in Biology
Credits: 0
Laboratory or fieldwork in biology at an on- or off-campus location. Pass/fail only. No tuition. Prerequisite: Departmental approval required.

BIOL 2101 - Introductory Undergraduate Research
Credits: 1
A minimum of 5 hours per week doing supervised laboratory research. Offered on a pass/fail basis only. Prerequisites: At least sophomore standing, BIOL 1301/BIOL 1101 (or BIOL 1401) and BIOL 1302/BIOL 1102 (or BIOL 1402), and consent of instructor.

BIOL 2102 - Introductory Research II
Credits: 1
A minimum of 5 hours per week doing supervised laboratory research. Offered on a pass/fail basis only. Prerequisites: BIOL 2101 and consent of instructor.

BIOL 2185 - Internship in Biology
Credits: 1
Laboratory or fieldwork in biology at an on- or off-campus location. Pass/Fail only. Prerequisite: Departmental approval required.

BIOL 2441 - Human Anatomy and Physiology with Laboratory I, for Non-Science Majors
Credits: 4
A systemic approach to the study of the human body, with a focus on the anatomical structure and function of the human neuromusculoskeletal systems taught for the nonscience major. This course does not satisfy requirements for a biology major or minor, nor can it substitute for an advanced biology course in a program where one is required. Undergraduate, graduate, or professional programs with requirements designated specifically for "science majors only" are not satisfied with this course. This is the gateway course for applied physiology and enterprise concentration majors; successful completion is mandatory for admission to the APSM program. Lab fee: $30. Prerequisite: Reserved for students who have fewer than 90 credit hours or have the instructor's approval.

BIOL 2442 - Human Anatomy and Physiology with Laboratory II, for Non-Science Majors
Credits: 4
Examines the gross anatomy and physiology of the endocrine, cardiovascular, respiratory, digestive, and urinary systems, and their relationship with human health and performance taught for the nonscience major. This course does not satisfy requirements for a biology major or minor, nor can it substitute for an advanced biology course in a program where one is required. Undergraduate, graduate, or professional programs with requirements designated specifically for "science majors only" are not satisfied with this course. Lab fee: $30. Prerequisite: APSM 2441 or BIOL 2441.

BIOL 3100 - Special Topics Abroad
Credits: 1
Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad may be applied toward the B.A. or B.S. degree in biology. May not be applied toward the minor in biology. Prerequisite: Departmental approval.

BIOL 3106 - Physiology Laboratory
Credits: 1
Uses live organisms to study homeostasis and the following: cell cycle, cardiovascular, nervous, sensory, digestive, and respiratory physiology. Prerequisites: C- or better in BIOL 3304 and BIOL 3350. Prequisite or corequisite: BIOL 4306.

BIOL 3170 - Microbiology Laboratory
Credits: 1
Introduces microbiological methods for: inoculation of bacteria using aseptic technique, isolating bacterial colonies, identification of bacterial morphology using microscopy, enumeration and identification of bacteria using culture methods and differential media. One 3-hour lab each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402) and C- or better in BIOL 3304. Prerequisite or corequisite: BIOL 3370.

BIOL 3200 - Special Topics Abroad
Credits: 2
Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad may be applied toward the B.A. or B.S. degree in biology. May not be applied toward the minor in biology. Prerequisite: Departmental approval.

BIOL 3222 - Molecular Genetics Laboratory
Credits: 2
Students gain experience in investigative methods used in modern medical research, molecular biology, genetics, bioinformatics, forensic science, and the pharmaceutical and biotechnology industries. Prerequisite: C- or better in BIOL 3304.

BIOL 3300 - Special Topics Abroad
Credits: 3
Courses offered in SMU-approved international programs. May be repeated for credit under a different subtitle. A maximum of 6 hours of special topics abroad may be applied toward the B.A. or B.S. degree in biology. May not be applied toward the minor in biology. Prerequisite: Departmental approval.

BIOL 3303 - Evolution
Credits: 3
A study of the principles of biological evolution. Includes natural selection, adaptation, molecular evolution, the formation of new species, the fossil record, biogeography, and principles of classification. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401) and C- or better in BIOL 3304.

BIOL 3304 - Genetics
Credits: 3
An introduction to the structure, function, and transmission of the hereditary material. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401) and CHEM 1304.

BIOL 3305 - Limnology: Aquatic Biology
Credits: 3
The study of inland waters, integrating chemistry, physics, and biology. Emphasis is on identifying organisms and studying their interactions with the environment. Includes 2 hours of lecture and one 3-hour laboratory each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402), and CHEM 1303.

BIOL 3307 - Ecology
Credits: 3
Basic principles and concepts of ecology, with emphasis on population and community interactions. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101, BIOL 1302/BIOL 1102, or permission of instuctor.

BIOL 3308 - Biology of Marine Mammals
Credits: 3
A comparative study of marine mammal anatomy, morphology, physiology, life history and behavior, and adaptation to marine existence. Includes study of the effect of human activities on marine mammals, with special reference to northern European waters. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402), and CHEM 1303/CHEM 1113. (SMU-in-Copenhagen only)

BIOL 3311 - Tropical Ecology and Sustainable Development
Credits: 3
Examines the ecological impact of human activity, especially agriculture, in a tropical country. Topics include water pollution, waste management, and climate change. Prerequisites: BIOL 3307 and at least one college-level course in Spanish. (SMU-in-Costa Rica only)

BIOL 3312 - Wildlife Ecology
Credits: 3
Ecological principles of the East Africa savanna ecosystem. Examines factors underlying distributions, population biology, and behavioral ecology, along with competition and predation, using African examples. Prerequisite: BIOL 3307. (SMU-in-Kenya only)

BIOL 3323 - Biology of the Brain
Credits: 3
Reviews the basic functioning of the brain and provides a deeper understanding of how people interact with their surrounding environment. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL1102 (or BIOL 1402). Recommended: BIOL 3222.

BIOL 3342 - Plant Kingdom
Credits: 3
A survey of the plant kingdom, emphasizing life histories and developmental morphology. Includes 2 hours of lecture and one 3-hour laboratory each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402).

BIOL 3343 - Field Botany
Credits: 3
Identification of vascular plants, with emphasis on ecological indicators. Lectures and laboratories conducted at Fort Burgwin, New Mexico, site of SMU-in-Taos. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402).

BIOL 3347 - Systematic Botany
Credits: 3
An introduction to the history, nomenclature, family characteristics, identification, and biosystematics of the flowering plants. Lecture and laboratory work conducted at Fort Burgwin, New Mexico. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402).

BIOL 3350 - Cell Biology
Credits: 3
The structure and function of cells. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402), and CHEM 1304.

BIOL 3354 - Parasitology
Credits: 3
Comparative study of protozoa and helminthic parasitic organisms, and their role in diseases. Includes 2 hours of lecture and one 3-hour laboratory each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402).

BIOL 3365 - Cancer Biology
Credits: 3
Emphasis on the molecular features of oncogenesis and human cancers, including carcinogenesis, metastasis, and roles of genetic mutations and chromosomal aberrations during neoplasia. Prerequisite: C- or better in BIOL 3350.

BIOL 3369 - Paleobiology
Credits: 3
A survey of biological diversity, phylogenetic analysis, rates of evolution, extinction, biogeography, taphonomy, and paleoecology. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401) or BIOL 1302/BIOL 1102 (or BIOL 1402) or one 1300-level course in Earth sciences or permission of instructor.

BIOL 3370 - Microbiology
Credits: 3
The biology of microorganisms, with an emphasis on diversity, disease, and the environment. Includes 3 hours of lecture each week. Recommended: CHEM 3371, CHEM 3117. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402) and C- or better in BIOL 3304.

BIOL 3385 - Internship in Biology
Credits: 3
Biological research at an institution other than SMU. Credit does not apply toward the degree requirement for two laboratory classes. A student may not take both BIOL 3385 and BIOL 3398 for a letter grade. Prior departmental approval required. Prerequisites: BIOL 3304, BIOL 3350.

BIOL 3398 - Undergraduate Research I
Credits: 3
A minimum of 9 hours per week doing research in the laboratory of a faculty member. Credit for this course does not apply toward the degree requirement for two laboratory courses. A student may not earn credit in both BIOL

3385 and BIOL 3398. Prerequisites: Junior standing, and approval of faculty sponsor and the Undergraduate Studies Committee of the department.

BIOL 3399 - Undergraduate Research II
Credits: 3
Pass/fail only. Cannot be applied toward the requirements for the major in biological sciences. Prerequisites: BIOL 3398 and approval by the faculty sponsor and the Undergraduate Studies Committee of the department.

BIOL 4106 - Functional Anatomy and Histology Laboratory
Credits: 1
A scientific study of Mammalian Anatomy, from the cellular level (Histology) through organ systems (dissections), including pathology cases and application of weekly vocabulary lists of Latin and Greek stem words. Prerequisites: Grade of C- or better in BIOL 3304 and BIOL 3350. Corequisite or prerequisite: BIOL 4306 or BIOL 5364. Withdrawal from BIOL 4306 or BIOL 5364 requires withdrawal from BIOL 4106.

BIOL 4119 - Immunobiology Laboratory
Credits: 1
Provides experience in experimental techniques and strategies used in immunobiology labs, including cell culture, quantitative plate-based assays, and fluorescence-activated cell sorting. Two 3-hour labs each week for half a term. Prerequisites: BIOL 3304, BIOL 3350. Prerequisite or corequisite: BIOL 4319.

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

BIOL 4160 - Toxicology Laboratory
Credits: 1
Modern biochemical and molecular techniques are used to assess the impact of environmental contaminants on liver biomarkers in fish. One 3-hour laboratory each week. Prerequisite: C- or better in BIOL 3350. Prerequisite or corequisite: BIOL 4360.

BIOL 4306 - Human Anatomy with Physiology
Credits: 3
Explores human anatomy and physiology, with an emphasis on cellular mechanisms that influence organ system functions. Covers nervous, cardiovascular, respiratory, and renal systems. Also covers abnormal anatomy and physiology (pathology), where appropriate, as part of clinical case studies. Prerequisites: C- or better in BIOL 3304, BIOL 3350; CHEM 1113, CHEM 1114, CHEM 1303, CHEM 1304.

BIOL 4319 - Immunobiology
Credits: 3
Introduction to fundamental concepts of the immune system. Prerequisites: BIOL 3304, BIOL 3350.

BIOL 4322 - Molecular Biology of Eukaryotes
Credits: 3
Structure and function of eukaryotic chromosomes as mediators of gene expression during growth, differentiation, and oncogenesis. A student cannot have previously completed BIOL 5304. Prerequisites: BIOL 3304, CHEM 3372, and junior standing.

BIOL 4331 - Developmental Biology
Credits: 3
Developmental processes in animals. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402) and C- or better in BIOL 3304.

BIOL 4360 - Environmental and Human Toxicology
Credits: 3
Introduction to environmental toxicology, focusing on the fate and transport, biotransformation, and biochemical

and physiological impacts of pollutants on humans and wildlife. Includes 3 hours of lecture per week. Prerequisites: C- or better in BIOL 3304, BIOL 3350; CHEM 3371, CHEM 3372.

BIOL 4370 - Biotechnology and Nanotechnology
Credits: 3
Introduction to current techniques and emerging applications of biotechnology and nanobiotechnology in medicine, agriculture, forensic and aquatic sciences, and bioremediation. Prerequisites: CHEM 3371 and C- or better in BIOL 3304.

BIOL 4380 - Gene Editing Lab
Credits: 3
A project-based course that trains students how to use the CRISPR-Cas9 system in a model organism to create new research tools for the scientific community. Prerequisites: C- or better in BIOL 3304 and BIOL 3350. Students are expected to have basic laboratory research experience. Non-honors students may enroll with the permission of the instructor if they possess competence in basic laboratory research techniques.

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

BIOL 4398 - Honors Undergraduate Research I
Credits: 3
For students in the departmental distinction program. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402); admission to departmental distinction program.

BIOL 4399 - Honors Undergraduate Research II
Credits: 3
For students in the departmental distinction program. Prerequisite: B+ or better in BIOL 4398.

BIOL 5102 - Structural Biology Seminar
Credits: 1
Readings and discussions of the period 1933-1963 when structural molecular biology emerged. Readings include original research articles and historical reviews. Prerequisite: BIOL 5310/CHEM 5310 or consent of instructor.

BIOL 5110 - Biological Chemistry Laboratory
Credits: 1
Two 3-hour labs each week for half a term. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1302/BIOL 1102 (or BIOL 1402). Prerequisite or corequisite: BIOL 5310/CHEM 5310. If CHEM 5110 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

BIOL 5304 - Molecular Biology: Control and Expression of Genetic Information
Credits: 3
DNA structure and replication, control of transcription and translation, and techniques in molecular genetics and recombinant DNA technology. Prerequisites: CHEM 3372 and C- or better in BIOL 3304.

BIOL 5305 - Genomics and Bioinformatics
Credits: 3
Impact of completely sequenced genomes on current experimental and computational approaches to biomedical research. Introduction to the technology, biology, and software exploited by molecular biology, genealogy, and medical diagnostic labs. Prerequisites: C- or better in BIOL 3304 and junior standing.

BIOL 5310 - Biological Chemistry: Macromolecular Structure and Function
Credits: 3
Introduces the structure and function of macromolecules of biological importance, with a focus on nucleic acid and

protein structure, enzyme kinetics, and carbohydrate and lipid chemistry. Includes 3 hours of lecture each week. The accompanying laboratory (BIOL 5110) is strongly recommended for biology majors. If CHEM 5310 is counted towards a chemistry major or minor, it cannot be counted towards a biological sciences major or minor. Prerequisites: C- or better in CHEM 3371, CHEM 3372 and junior standing.

BIOL 5311 - Biological Chemistry: Metabolism
Credits: 3
Introduction to the pathways and regulatory events in the metabolism of carbohydrates, lipids, amino acids, and nucleotides. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401), BIOL 1301/BIOL 1102 (or BIOL 1402); CHEM 3371, CHEM 3372. If CHEM 5311 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

BIOL 5325 - General and Molecular Virology
Credits: 3
Emphasis on the molecular aspects of viral replication and pathogenesis, including the roles of viruses in emerging human infectious diseases, cancer, and bioterrorism. Prerequisites: C- or better in BIOL 3304 and junior standing.

BIOL 5340 - Molecular Basis of Brain Development and Degeneration
Credits: 3
Covers the molecular biology of brain development and degeneration. Interactive course that includes lectures and student presentations of publications describing important research findings related to neurodevelopment and neurodegeneration. Recommended: BIOL 3323. Prerequisites: BIOL 1302/BIOL 1102 (or BIOL 1402), BIOL 3304, BIOL 3350.

BIOL 5344 - Physical Chemistry of Proteins
Credits: 3
Graduate-level course on the fundamental aspects of techniques used to interrogate the thermodynamics and kinetics of protein conformational changes, with emphasis on atomic resolution structural techniques. Prerequisites: BIOL 5310/CHEM 5310, CHEM 5383 and CHEM 5384, and instructor approval.

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

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

BIOL 5364 - Integrated Human Physiology with Endocrinology
Credits: 3
Normal function and diseases of the major hormone systems of the body including the hypothalamus/pituitary axes; the thyroid gland; reproduction and sexual development; digestion and metabolism including the pancreas, bone, and calcium metabolism; and the adrenal glands. Prerequisites: C- or better in BIOL 3304 and BIOL 3350.

Chemistry

www.smu.edu/chemistry

Professor Elfi Kraka, **Department Chair**

Professors: John Buynak, Werner Horsthemke (Co-Director of Undergraduate Studies), Elfi Kraka, Michael Lattman, Mark Schell, David Son
Associate Professors: Alexander Lippert, Peng Tao, Nicolay Tsarevsky, Brian Zoltowski
Assistant Professors: Doran Bennett, Anindita Das, Devin Matthews, Tomce Runcevski
Professor of Practice: Jennifer O'Brien (Co-Director of Undergraduate Studies)
Senior Lecturers: Andrea Adams, Helen Babbili

General Information

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

Departmental Distinction

A chemistry major pursuing a B.S. degree may elect to graduate with departmental distinction. The student must apply to the department for this designation during the junior year, after at least 22 credit hours of chemistry have been completed with a minimum GPA of 3.500 in those courses. The student will enroll in CHEM 4397 and undertake an independent research project under the supervision of a departmental faculty member. During the senior year, a senior thesis will be written and presented to the department. Upon completion of all degree requirements, approval of the departmental faculty at the completion of these requirements, and provided the student maintains a minimum 3.500 GPA in all chemistry courses, the student will graduate with departmental distinction in chemistry.

Chemistry, B.A.

The B.A. degree requires the completion of a minimum of 40 total credit hours, with a minimum of 26 hours taken in the chemistry department. This degree is not certified by the American Chemical Society.

Note: Organic chemistry courses taken outside of SMU do not count as advanced resident hours toward the degree. CHEM 4397 does not count towards the B.A. degree.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (19 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- CHEM 5383 - Physical Chemistry I

Mathematics and Physics (14 Credit Hours)

- MATH 1337 - Calculus I
  and
- MATH 1338 - Calculus II or STAT 2331 - Introduction to Statistical Methods
  or
- MATH 1340 - Consolidated Calculus

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

Advanced Chemistry Electives (7-9 Credit Hours)

Three courses from the following, chosen with adviser's approval.

- CHEM 3351 - Quantitative Analysis
- CHEM 4313 - Modern Physical Organic Chemistry
- CHEM 51XX
- CHEM 53XX

Total for the Major Only: 40-42 Credit Hours

Chemistry, B.S.

The B.S. degree requires the completion of a minimum of 61 total credit hours, with a minimum of 44 hours taken in the chemistry department. This degree is certified by the American Chemical Society for professional training in chemistry.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (41 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry

- CHEM 1114 - General Chemistry Laboratory

- CHEM 3351 - Quantitative Analysis

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- CHEM 4397 - Undergraduate Research
- CHEM 5185 - Laboratory Methods in Physical Chemistry
- CHEM 5188 - Advanced Physical Chemistry Laboratory
- CHEM 5310 - Biological Chemistry: Macromolecular Structure and Function
- CHEM 5383 - Physical Chemistry I
- CHEM 5384 - Physical Chemistry II

- CHEM 5392 - Advanced Inorganic Chemistry
- CHEM 5192 - Inorganic Synthesis Laboratory

- CHEM 5486 - Instrumental Analysis

Mathematics and Physics (17 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

Advanced Chemistry Elective (3 Credit Hours)

One course chosen with adviser's approval.

- CHEM 43XX
  or

- CHEM 53XX

Total for the Major Only: 61 Credit Hours

Chemistry Minor

The minor requires the completion of a minimum of 17 credit hours. At least two of the advanced courses (i.e. 3000-level and above) must be taken at SMU. CHEM 4397 does not count towards the minor.

Requirements for the Minor

Core Courses (8 Credit Hours)

Courses with a lab must be taken together.

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

Advanced Chemistry Electives (9-12 Credit Hours)

Chosen with adviser's approval.

- Three 3- or 4-credit hour CHEM courses, at the 3000-level and above.

Total: 17-20 Credit Hours

Chemistry Courses

CHEM 1113 - General Chemistry Laboratory
Credits: 1
One 3–hour laboratory period each week. Prerequisite or corequisite: CHEM 1303.

CHEM 1114 - General Chemistry Laboratory
Credits: 1
One 3–hour laboratory period each week. Prerequisites or corequisites: CHEM 1304 and CHEM 1113.

CHEM 1301 - Chemistry for Liberal Arts
Credits: 3
Introductory course in chemistry designed for non-majors. A background in chemistry is not needed. Topics include atoms, molecules, pollution, ozone, chemical reactions, electromagnetic radiation, energy, water, acids and bases, nuclear reactions, chemistry of nutrition, drugs, batteries, and polymers and plastics.

CHEM 1302 - Preparatory Chemistry
Credits: 3
For students desiring to strengthen their background in chemistry prior to enrolling in the general chemistry course CHEM 1303.

CHEM 1303 - General Chemistry
Credits: 3
Primarily for science majors, premed students, and engineering students. Introduces the fundamental principles and theories of chemistry, including stoichiometry, the structure of matter, energy relationships involved in the transformation of matter, the dynamics of such transformations, and some descriptive chemistry of the important elements. Prerequisite to all advanced courses in the department. Withdrawal from CHEM 1303 requires withdrawal from CHEM 1113.

CHEM 1304 - General Chemistry
Credits: 3
Primarily for science majors, premed students, and engineering students. Continuation of the introduction to the fundamental principles and theories of chemistry. Topics include solution chemistry, kinetics, equilibrium, thermodynamics, electrochemistry, polymer chemistry, and organic chemistry. Prerequisite to all advanced courses in the department. Withdrawal from CHEM 1304 requires withdrawal from CHEM 1114. Prerequisite: Grade of C- or higher in CHEM 1303.

CHEM 3117 - Organic Chemistry Laboratory
Credits: 1
One 3–hour laboratory period each week. Prerequisite or corequisite: CHEM 3371.

CHEM 3118 - Organic Chemistry Laboratory
Credits: 1
One 3–hour laboratory period each week. Prerequisite or corequisite: CHEM 3372. Prerequisite: CHEM 3117.

CHEM 3351 - Quantitative Analysis
Credits: 3
Involves the theory and practice of quantitative analytical chemistry techniques, including gravimetric, volumetric, electrochemical, and spectroscopic analyses. Includes 3 hours of lecture and two 4 hour laboratory periods per week for one-half term. Prerequisites: C- or higher in CHEM 1303, CHEM 1304, CHEM 1113, CHEM 1114.

CHEM 3371 - Organic Chemistry
Credits: 3
Designed to satisfy the requirements of the chemistry major and health-related professions student. The first term deals primarily with aliphatic chemistry, with special emphasis on stereochemistry. The second term emphasizes aromatic substances and the chemistry of biologically relevant molecules. Prerequisites: C- or higher in CHEM 1303, CHEM 1113, CHEM 1304, CHEM 1114.

CHEM 3372 - Organic Chemistry
Credits: 3
For chemistry majors and students interested in health-related professions. Emphasizes spectroscopy and the chemistry of functional groups. Prerequisites: C- or higher in CHEM 3371.

CHEM 4097 - Undergraduate Research
Credits: 0
For students who hold research fellowships but are not enrolled in any credit hour courses. No tuition.

CHEM 4313 - Modern Physical Organic Chemistry
Credits: 3
Covers advanced topics in organic chemistry including molecular orbital theory, organometallic mechanisms, and photochemistry. Emphasis is placed on using mechanistic understanding to predict chemical reactivity. Prerequisites: CHEM 1303, CHEM 1304, CHEM 3371, and CHEM 3372.

CHEM 4397 - Undergraduate Research
Credits: 3
Prerequisites: Junior or senior classification and permission of the instructor.

CHEM 5110 - Biological Chemistry Laboratory
Credits: 1
One 3–hour laboratory period each week. Corequisite: CHEM 5310. If CHEM 5110 is counted toward a chemistry major or minor, it cannot be counted toward a biological sciences major or minor.

CHEM 5185 - Laboratory Methods in Physical Chemistry
Credits: 1
Laboratory experiments with emphasis on thermodynamics, chemical kinetics, and physical biochemistry. Includes a half-hour of lecture and 5 hour laboratory period each week for 5 weeks. Prerequisite: CHEM 5383.

CHEM 5188 - Advanced Physical Chemistry Laboratory
Credits: 1
Laboratory experiments with emphasis on chemical kinetics and molecular spectroscopy. Includes a half-hour of

lecture and 5 hour laboratory period each week for 5 weeks. Prerequisite: CHEM 5185. Corequisite: CHEM 5384 or permission of instructor.

CHEM 5192 - Inorganic Synthesis Laboratory
Credits: 1
Introduces advanced techniques and methods used in the synthesis of inorganic compounds. Prerequisite: Permission of instructor.

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

CHEM 5308 - Special Topics in Chemistry
Credits: 3
Presentation of advanced special topics in chemistry that are at the forefront of current chemical interest. Content varies from term to term.

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

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

CHEM 5317 - Introduction to Molecular Modeling and Computer-Assisted Drug Design
Credits: 3
Presents a thorough and in-depth overview of methods and techniques in computer-assisted drug design. Topics include drug discovery and drug design, molecular recognition and docking, ligand-receptor interactions, pharmacophore searching, virtual screening, de novo design, molecular graphics, and chemometrics. Prerequisites: CHEM 1303, CHEM 1304 or permission of instructor. Note: Class assignments and projects are completed in the computer lab outside of the regularly scheduled class times.

CHEM 5321 - Understanding Chemistry
Credits: 3
Focuses on a general understanding of chemistry in terms of models and concepts that describe structure, stability, reactivity, and other properties of molecules in a simple, yet very effective way. Prerequisites: CHEM 1303, CHEM 1304 or permission of instructor.

CHEM 5322 - Introduction to Nanotechnology
Credits: 3
Introduces nanotechnology, which is expected to change lives and society more than computer technology and electricity have done together. Discusses nanomaterials and their applications. Prerequisites: CHEM 1303, CHEM 1304 or permission of instructor.

CHEM 5333 - Introduction to Polymer Chemistry
Credits: 3
This course provides basic information on the synthesis, physical properties, and solution properties of high molecular weight molecules. Plastics, manufacturing, and fabrication of polymers are discussed. Prerequisites: CHEM 3371 and CHEM 3372.

CHEM 5344 - Physical Chemistry of Proteins
Credits: 3
Graduate-level course on the fundamental aspects of techniques used to interrogate the thermodynamics and kinetics of protein conformational changes, with emphasis on atomic resolution structural techniques. Prerequisites: CHEM 5383 and CHEM 5384, knowledge of basic biochemistry, and instructor approval.

CHEM 5383 - Physical Chemistry I
Credits: 3
Gas laws; kinetic molecular theory; introduction to thermodynamics, with applications to phase transitions and chemical equilibrium; chemical kinetics. Prerequisites: CHEM 1114 and CHEM 1304 with a grade of C or better, PHYS 1105 and PHYS 1304 or PHYS 1308, and MATH 1337, or permission of instructor.

CHEM 5384 - Physical Chemistry II
Credits: 3
Elements of quantum mechanics and its description of many-electron atoms, bonding, and spectroscopy; intermolecular forces; structure of solids; and transport properties of fluids. Prerequisite: CHEM 5383.

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

CHEM 5393 - Advanced Organic Chemistry
Credits: 3
Includes 3 hours of lecture each week. Prerequisite: CHEM 3372.

CHEM 5396 - Advanced Physical Chemistry
Credits: 3
Includes 3 hours of lecture each week. Prerequisite: Permission of instructor.

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

CHEM 5486 - Instrumental Analysis
Credits: 4
The theory, operation, and application of instrumentation used in the modern chemical laboratory. Includes 2 hours of lecture and two 3-hour laboratory periods each week. Prerequisites: CHEM 3351 or permission of instructor; C- or higher in CHEM 1303, CHEM 1304, CHEM 1113, CHEM 1114.

Earth Sciences

www.smu.edu/earthsciences

Professor Heather DeShon, **Department Chair**

Professors: Heather DeShon, Robert T. Gregory, Matthew Hornbach (Director of Undergraduate Studies), Zhong Lu, Maria Beatrice Magnani, Jim Quick, Brian Stump, Neil Tabor, Crayton Yapp
Associate Professor: Stephen Arrowsmith
Assistant Professor: Rita Economos
Research Professors: Dori Contreras, Anthony Fiorillo, Mihan H. McKenna Taylor, Ian Richards, Matthew Siegler, H. Troy Stuckey, Alisa J. Winkler, Dale A. Winkler, Pierre Zippi

General Information

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

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

Academic programs are tailored to the educational and career objectives of each student. Because of the heavily funded active research programs within the department and ties with the Dallas geological community, students often receive excellent pre- and post-graduation employment opportunities. The department also has some financial aid available for undergraduate majors, including department scholarships and support for off-campus field programs.

The department offers two different majors in Earth sciences: earth sciences B.A. and B.S. Two minors, one in geology and the other in environmental earth sciences, are available for those not pursuing a major in the earth sciences.

The department is also the home of the environmental science and environmental studies programs, which can be found in archived undergraduate catalogs prior to 2019-2020 under Dedman College Interdisciplinary programs.

Earth Sciences, B.A.

Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.A. in Earth sciences includes a set of core courses that provide students with the necessary background in geology, chemistry, and physics or biology. Specializations in geology, environmental studies, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.A. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those in preprofessional programs.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
A minimum of 42 credit hours with at least 25 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)
One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (10 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3107 - Departmental Seminars
- GEOL 3343 - Geology Field Studies

Required Support Courses (4 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

Self-Designated Concentration
A minimum of 25 credit hours of additional advanced elective courses at the 3000 level and above, not to exceed 12 credit hours outside of Earth sciences. The concentration plan must be approved by the department academic adviser at least one academic year prior to expected graduation.

Total for the Major Only: 42 Credit Hours
Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.

Earth Sciences, B.A. with a Specialization in Environmental Studies
Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.A. in Earth sciences includes a set of core courses that provide students with the necessary background in geology, chemistry, and physics or biology. Specializations in geology, environmental studies, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.A. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those in preprofessional programs.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Environmental Studies

A minimum of 42 credit hours with at least 25 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)

One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (10 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3107 - Departmental Seminars
- GEOL 3343 - Geology Field Studies

Required Support Courses (4 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

Environmental Studies Specialization (25 Credit Hours)

Required Courses (10 Credit Hours)

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
- GEOL 3307/BIOL 3307 - Ecology
- STAT 2331 - Introduction to Statistical Methods

Elective Courses (15 Credit Hours)

A minimum of 15 credit hours of approved elective courses at the 2000 level and above, not to exceed six credit hours outside of Earth sciences, from the following:

- ANTH 3319 - Humanity and Global Environmental Change
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4383 - Geoarchaeology
- ANTH 4388 - Geospatial Archaeology
- BIOL 3303 - Evolution
- BIOL 3305 - Limnology: Aquatic Biology
- GEOL 2313 - Science and Politics in the Nuclear Age
- GEOL 3330 - Resources and the Environment
- GEOL 3353 - Modern and Ancient Climates
- GEOL 3359 - Computer Methods in Earth Sciences
- GEOL 3361 - Environmental Geology Seminar
- GEOL 3363 - Environmental Geology Seminar
- GEOL 3374 - Introduction to Petroleum Geology
- GEOL 3472 - Principles of Sedimentation
- GEOL 5384 - Hydrogeology
- HIST 3309 - North American Environmental History

- PLSC 3333 - Environmental Policy
- PP 3310 - Environmental Policy

Total for the Major Only: 42 Credit Hours

Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.

Earth Sciences, B.A. with a Specialization in Geology

Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.A. in Earth sciences includes a set of core courses that provide students with the necessary background in geology, chemistry, and physics or biology. Specializations in geology, environmental studies, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.A. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those in preprofessional programs.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Geology

A minimum of 42 credit hours with at least 25 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)

One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (10 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3107 - Departmental Seminars
- GEOL 3343 - Geology Field Studies

Required Support Courses (4 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

Geology Specialization (25 Credit Hours)

Required Courses

- GEOL 3451 - Earth Materials I: Mineralogy

- GEOL 3452 - Earth Materials II: Petrology
- GEOL 3472 - Principles of Sedimentation

- PHYS 1303 - Introductory Mechanics
  and
- PHYS 1105 - Mechanics Laboratory
  or
- CHEM 1304 - General Chemistry
  and
- CHEM 1114 - General Chemistry Laboratory

- MATH 1337 - Calculus I
  or
- MATH 1340 - Consolidated Calculus

Elective Courses
A minimum of six credit hours of additional advanced elective courses at the 3000 level and above in Earth sciences (GEOL).

Total for the Major Only: 42 Credit Hours
Notes:
- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.

Earth Sciences, B.S
Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.S. in Earth sciences includes a set of core courses that provide the student with the necessary background in geology, chemistry, physics, biology, mathematics and field techniques. Specializations in geology, geophysics, and environmental and resource sciences, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.S. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those pursuing graduate work in the sciences and professional Earth science employment opportunities.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
A minimum of 60 credit hours with at least 30 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)
One course from the following:
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography

- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (17 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3343 - Geology Field Studies
- GEOL 3451 - Earth Materials I: Mineralogy
- GEOL 3454 - Structural Geology

Required Support Courses (18 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

Self-Designated Concentration

A minimum of 27 credit hours of additional advanced elective courses from Earth sciences, anthropology, biological sciences, and/or chemistry, not to exceed 12 credit hours outside of Earth sciences. The concentration plan must be approved by the department academic advisor at least one academic year prior to expected graduation.

Total for the Major Only: 65 Credit Hours

Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.
- B.S. students in Earth sciences who plan to pursue a graduate degree in Earth or environmental science are strongly encouraged to complete a minor in an allied field (mathematics, biology, chemistry, physics or anthropology).

Earth Sciences, B.S. with a Specialization in Environmental and Resource Sciences

Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.S. in Earth sciences includes a set of core courses that provide the student with the necessary background in geology, chemistry, physics, biology, mathematics and field techniques. Specializations in geology, geophysics, and environmental and resource sciences, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.S. in Earth sciences pairs well with majors and minors across the university and provides a strong

science-based major for those pursuing graduate work in the sciences and professional Earth science employment opportunities.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Environmental and Resource Sciences

A minimum of 60 credit hours with at least 30 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)

One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (17 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3343 - Geology Field Studies
- GEOL 3451 - Earth Materials I: Mineralogy
- GEOL 3454 - Structural Geology

Required Support Courses (18 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

Environmental and Resource Sciences Specialization (27 Credit Hours)

Required Courses

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory
- GEOL 3307 - Ecology
- GEOL 3330 - Resources and the Environment

Elective Courses

A minimum of nine credit hours of approved advanced elective courses, not to exceed six credit hours outside of Earth sciences, from the following:

- ANTH 3319 - Humanity and Global Environmental Change
- ANTH 3370 - Fire on Earth: An Introduction to Pyrogeography
- ANTH 3373 - Living with Fire: Past, Present, Future
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 3399 - In Search of Ice Age Americans
- ANTH 4383 - Geoarchaeology
- ANTH 4388 - Geospatial Archaeology
- BIOL 3303 - Evolution
- BIOL 3305 - Limnology: Aquatic Biology
- CHEM 3351 - Quantitative Analysis

- CHEM 3372 - Organic Chemistry
  and
- CHEM 3118 - Organic Chemistry Laboratory

- GEOL 3107 - Departmental Seminars
- GEOL 3353 - Modern and Ancient Climates
- GEOL 3359 - Computer Methods in Earth Sciences
- GEOL 3361 - Environmental Geology Seminar
- GEOL 3363 - Environmental Geology Seminar
- GEOL 3472 - Principles of Sedimentation
- GEOL 3374 - Introduction to Petroleum Geology
- GEOL 5384 - Hydrogeology
- PLSC 3333 - Environmental Policy
- PP 3310 - Environmental Policy

Total for the Major Only: 65 Credit Hours

Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.
- B.S. students in Earth sciences who plan to pursue a graduate degree in Earth or environmental science are strongly encouraged to complete a minor in an allied field (mathematics, biology, chemistry, physics or anthropology).

Earth Sciences, B.S. with a Specialization in Geology

Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.S. in Earth sciences includes a set of core courses that provide the student with the necessary background in geology, chemistry, physics, biology, mathematics and field techniques. Specializations in geology, geophysics, and environmental and resource sciences, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.S. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those pursuing graduate work in the sciences and professional Earth science employment opportunities.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Geology

A minimum of 60 credit hours with at least 30 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)

One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (17 Credit Hours)

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3343 - Geology Field Studies
- GEOL 3451 - Earth Materials I: Mineralogy
- GEOL 3454 - Structural Geology

Required Support Courses (18 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- MATH 1337 - Calculus I and MATH 1338
  or
- MATH 1340 - Consolidated Calculus

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

Geology Specialization (27 Credit Hours)

Required Courses

- GEOL 3452 - Earth Materials II: Petrology
- GEOL 3472 - Principles of Sedimentation
- GEOL 4657 - Field Geology
- GEOL 5320 - Dynamic Earth I

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
  or
- MATH 3313 - Ordinary Differential Equations

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Elective Courses
A minimum of three credit hours of additional advanced elective courses at the 3000 level and above in Earth sciences (GEOL).

Total for the Major Only: 65 Credit Hours
Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.
- B.S. students in Earth sciences who plan to pursue a graduate degree in Earth or environmental science are strongly encouraged to complete a minor in an allied field (mathematics, biology, chemistry, physics or anthropology).

Earth Sciences, B.S. with a Specialization in Geophysics
Earth science is an interdisciplinary, applied science that explains how Earth's interior, surface, and atmospheric processes operate in interconnected ways with each other and with life on spatial scales from microscopic to global and on temporal scales from fractions of a second to millions of years. Thus, the Earth sciences must be approached in an interdisciplinary manner in both the classroom and the field. The B.S. in Earth sciences includes a set of core courses that provide the student with the necessary background in geology, chemistry, physics, biology, mathematics and field techniques. Specializations in geology, geophysics, and environmental and resource sciences, and unique student-designed concentrations established with faculty approval near completion of the core, are available. The B.S. in Earth sciences pairs well with majors and minors across the university and provides a strong science-based major for those pursuing graduate work in the sciences and professional Earth science employment opportunities.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Geophysics
A minimum of 60 credit hours with at least 30 credit hours in the Earth sciences. The number of support courses and total number of credit hours will depend on the specialization.

Core Course (3 Credit Hours)
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

GEOL Core Courses (17 Credit Hours)
- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 3343 - Geology Field Studies
- GEOL 3451 - Earth Materials I: Mineralogy
- GEOL 3454 - Structural Geology

Required Support Courses (18 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

Geophysics Specialization (28 Credit Hours)

Required Courses (19 Credit Hours)

- GEOL 3380 - Introduction to Geophysics
- GEOL 5389 - Theory of Digital Data Processing in Geophysics
- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations

- MATH 3304 - Introduction to Linear Algebra
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Elective Courses (9 Credit Hours)

Three advanced elective courses, distributed as follows:

Geophysics

A minimum of six credit hours of additional advanced elective courses at the 3000 level and above in geophysics, from the following:

- GEOL 5320 - Dynamic Earth I
- GEOL 5356 - Principles and Application of Remote Sensing
- GEOL 5384 - Hydrogeology
- GEOL 5392 - Introduction to Seismology

Earth Sciences

- A minimum of three credit hours of advanced elective courses at the 3000 level and above in Earth sciences (GEOL).

Total for the Major Only: 66 Credit Hours

Notes:

- Experience with a modern scientific computing language and geographic information systems is essential and can be gained in a course such as GEOL 3359 - Computer Methods in Earth Sciences.
- The requirements for the Earth sciences major are considered minimal. Students planning careers in the Earth sciences should take additional coursework according to the geoscience emphasis that best fits their goals. Students should consult a faculty adviser for suggestions.
- B.S. students in Earth sciences who plan to pursue a graduate degree in Earth or environmental science are strongly encouraged to complete a minor in an allied field (mathematics, biology, chemistry, physics or anthropology).

Environmental Earth Sciences Minor

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

Requirements for the Minor

A minimum of 17 credit hours, to be selected from the following, with at least nine credit hours at the 3000 level and above:

Core Courses (6 Credit Hours)

One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

One course from the following:

- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 3330 - Resources and the Environment
- GEOL 3353 - Modern and Ancient Climates
- GEOL 3363 - Environmental Geology Seminar

Elective Courses (11-12 Credit Hours)

Any four courses from the following:
(if not taken for the requirements above)

- GEOL 1315 - Introduction to Environmental Science
- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- GEOL 2313 - Science and Politics in the Nuclear Age
- GEOL 3243 - Geology Field Studies
- GEOL 3307 - Ecology
- GEOL 3330 - Resources and the Environment
- GEOL 3343 - Geology Field Studies
- GEOL 3353 - Modern and Ancient Climates
- GEOL 3363 - Environmental Geology Seminar
- GEOL 5384 - Hydrogeology
- GEOL 5386 - Geochemistry
- BIOL 1305 - The Natural Environment
- BIOL 3307 - Ecology
- BIOL 3342 - Plant Kingdom
- CEE 5311 - Environmental and Hazardous Waste Laws

Total: 17-18 Credit Hours

Geology Minor

Requirements for the Minor

A minimum of 17 credit hours in Earth sciences, selected from the following, with at least nine credit hours at the 3000 level and above:

GEOL Courses (3 Credit Hours)
One course from the following:

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

Earth Science Electives (12 Credit Hours)
Four courses at the 2000 level and above.

Geology Field Studies (2-3 Credit Hours)

- GEOL 3243 - Geology Field Studies
  or
- GEOL 3343 - Geology Field Studies

Total: 17-18 Credit Hours

Earth Sciences Courses

GEOL 1100 - Earth Sciences Abroad
Credits: 1
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 1200 - Earth Sciences Abroad
Credits: 2
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 1300 - Earth Sciences Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

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

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

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

GEOL 1313 - Earthquakes and Volcanoes
Credits: 3
Seismic and volcanic activity are two important manifestations of plate tectonics on the earth. They are also two major natural hazards affecting humankind. This course emphasizes the geologic insights provided by earthquakes and volcanoes, and their impact on society.

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

GEOL 2306 - Earth: History of Rock, Life, and the Environment
Credits: 3
Builds beyond the 1000-level by delving into the interdependent geological and biological history of Earth's near-surface environments based upon physical laws, biological history, and geological concepts. Prerequisite: One GEOL 1300-level course.

GEOL 2308 - Earth: Plate Tectonics and the Interior
Credits: 3
Fundamental concepts linking the physical, chemical, and mechanical processes of plate tectonics on Earth. Survey of the datasets and methods used to understand the structure and dynamics of Earth's interior. Prerequisite: One GEOL 1300-level course.

GEOL 2313 - Science and Politics in the Nuclear Age
Credits: 3
Investigation of societal changes associated with the development of scientific discoveries such as nuclear energy. Consideration is given to resulting conflicts and their resolution at local, national, and international levels.

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

GEOL 3100 - Earth Sciences Abroad
Credits: 1
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 3107 - Departmental Seminars
Credits: 1
Students attend and critically evaluate departmental seminars given by visiting scientists, visiting engineers, faculty, and graduate students. Prerequisite: Major in geology, geophysics, or environmental geology.

GEOL 3200 - Earth Sciences Abroad
Credits: 2
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 3243 - Geology Field Studies
Credits: 2
Project- and mapping-oriented, 2 week field trips to classical geological localities inside or outside of the U.S. Trips are normally conducted during the May interterm or between terms. Examples of planned trips include the

Caribbean, Hawaii, the Grand Canyon, Lake Superior in Canada, New Mexico, or Colorado. Prerequisites: One 1300-level course in Earth sciences and permission of instructor.

GEOL 3300 - Earth Sciences Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

GEOL 3307 - Ecology
Credits: 3
Basic principles and concepts of ecology, with emphasis on population and community interactions. Includes 3 hours of lecture each week. Prerequisites: BIOL 1301/BIOL 1101, BIOL 1302/BIOL 1102, or permission of instructor.

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

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

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

GEOL 3353 - Modern and Ancient Climates
Credits: 3
Science of the modern atmosphere, modern climate, and evidence of historical climatic change. Geological evidence for atmospheric and climatic changes throughout Earth's history. Prerequisite: One 1300-level course in Earth Sciences or permission of instructor.

GEOL 3359 - Computer Methods in Earth Sciences
Credits: 3
Solutions to geological, geochemical, and geophysical problems unique to Earth sciences using computer methods. Focuses on computer application to geologic mapping, modeling, and data analysis. Prerequisite: One 1300-level course in Earth Sciences or permission of instructor.

GEOL 3361 - Environmental Geology Seminar
Credits: 3
Focuses on timely geoscience-based environmental problems and addresses scientific, environmental, political, economic, legal, and social aspects of potential solutions through selected readings, seminars, guest speakers, and research projects. Prerequisite: One 1300-level Earth sciences course or permission of instructor.

GEOL 3363 - Environmental Geology Seminar
Credits: 3
Focuses on timely geoscience-based environmental problems and addresses scientific, environmental, political, economic, legal, and social aspects of potential solutions through selected readings, seminars, guest speakers, and research projects. Prerequisite: One 1300-level Earth sciences course or permission of instructor.

GEOL 3369 - Paleobiology
Credits: 3
A survey of biological diversity, phylogenetic analysis, rates of evolution, extinction, biogeography, taphonomy, and paleoecology. Prerequisites: BIOL 1301/BIOL 1101 (or BIOL 1401) or BIOL 1302/BIOL 1102 (or BIOL 1402) or one 1300-level course in Earth Sciences or permission of instructor.

GEOL 3374 - Introduction to Petroleum Geology
Credits: 3
An introduction to stratigraphy, sedimentation, and petroleum geology. Prerequisite: One 1300-level course in Earth sciences or permission of instructor.

GEOL 3380 - Introduction to Geophysics
Credits: 3
Survey of geophysical techniques used to understand the structure and dynamics of the solid earth, including seismology, geodesy, gravity, heat flow, and magnetism. Prerequisite: One 1300-level course in Earth Sciences or permission of instructor.

GEOL 3451 - Earth Materials I: Mineralogy
Credits: 4
The study of minerals and rocks: elementary crystallography; crystal chemistry; mineral structures and physical properties; rock classification and identification of rocks and minerals in hand specimen; principles of mineral optics; identification of minerals in thin section; and introduction to relationships among rock textures, origins, and rock-forming processes. Prerequisite: One 1300-level course in Earth sciences. Prerequisite or corequisite: CHEM 1301 or CHEM 1303.

GEOL 3452 - Earth Materials II: Petrology
Credits: 4
The study of minerals and rocks: elementary crystallography; crystal chemistry; mineral structures and physical properties; rock classification and identification of rocks and minerals in hand specimen; principles of mineral optics; identification of minerals in thin section; and introduction to relationships among rock textures, origins, and rock-forming processes. Prerequisite: One 1300-level course in Earth sciences. Prerequisite or corequisite: GEOL 3340.

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

GEOL 3472 - Principles of Sedimentation
Credits: 4
A study of the origin and postdepositional modification of sediments, sedimentary structures, and sedimentary rocks. Application to the recognition and interpretation of ancient marine and nonmarine sedimentary depositional sequences. Required weekend field trips. Prerequisite or corequisite: GEOL 3451 or permission of instructor.

GEOL 4199 - Integrative Research
Credits: 1
Faculty-supervised independent geoscience research project designed to acquaint the student with current scientific techniques in data gathering (in field and/or laboratory and/or library), data processing, and presentation of results. Prerequisite: Permission of faculty adviser.

GEOL 4296 - Senior Thesis Research Project
Credits: 2
This is a significant scientific project. GEOL 4296, GEOL 4298 are taken during the student's senior year as a 1-year sequence.

GEOL 4298 - Senior Thesis Research Project
Credits: 2
This is a significant scientific project. GEOL 4296, GEOL 4298 are taken during the student's senior year as a 1-year sequence.

GEOL 4299 - Integrative Research
Credits: 2
Faculty-supervised independent geoscience research project designed to acquaint the student with current scientific techniques in data gathering (in field and/or laboratory and/or library), data processing, and presentation of results. Prerequisite: Permission of faculty adviser.

GEOL 4385 - Internship in Geoscience
Credits: 3
Direct experience using applied geoscience techniques in a work environment, including resource recovery companies; environmental companies; law firms; nonprofit organizations; educational institutions; and municipal, state, or federal agencies. Prerequisites: Junior or senior standing in a geoscience major; overall GPA of at least 3.000; GEOL 3451; and sponsorship of a professor and approved organization, agency, or company.

GEOL 4399 - Integrative Research
Credits: 3
Faculty-supervised independent geoscience research project designed to acquaint the student with current scientific techniques in data gathering (in field and/or laboratory and/or library), data processing, and presentation of results. Prerequisite: Permission of faculty adviser.

GEOL 4657 - Field Geology
Credits: 6
Geologic mapping and field trips in a summer field-camp setting. Prerequisites: GEOL 3454, GEOL 3472 or permission of instructor.

GEOL 5110 - Independent Study in Geoscience
Credits: 1
Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or GEOL 5210; group projects allowed for GEOL 5310.

GEOL 5199 - Special Topics in Earth Sciences
Credits: 1
Topics of special interest not covered by the regular curriculum, taught by visiting scientists and those with temporary appointments at SMU. Can be cotaught together with faculty of the department. Prerequisite: GEOL 3340 or permission of instructor.

GEOL 5210 - Independent Study in Geoscience
Credits: 2
Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or GEOL 5210; group projects allowed for GEOL 5310.

GEOL 5299 - Special Topics in Earth Sciences
Credits: 2
Topics of special interest not covered by the regular curriculum, taught by visiting scientists and those with temporary appointments at SMU. Can be cotaught together with faculty of the department. Prerequisite: GEOL 3340 or permission of instructor.

GEOL 5310 - Independent Study in Geoscience
Credits: 3
Independent study of a selected topic in geoscience. Individual study under direction of a faculty member allowed for GEOL 5110 or GEOL 5210; group projects allowed for GEOL 5310.

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

GEOL 5356 - Principles and Application of Remote Sensing
Credits: 3
Covers the principals of remote sensing, remote sensing collection systems, basic remote sensing image analysis and processing techniques, and the applications of remote sensing to geologic studies. Prerequisites: PHYS 1304 and MATH 1338, or permission of instructor.

GEOL 5360 - Electron Microprobe Analysis
Credits: 3
Design and operation of the instrument. Correction procedures and computer automation. Analytical techniques and mineral chemistry.

GEOL 5368 - Paleoecology
Credits: 3
Interactions between the living world and the Earth's changing environments through geologic time. Prerequisite: GEOL 3369 or permission of instructor.

GEOL 5369 - Introduction to Palynology
Credits: 3
Provides an overview of palynology. Taphonomic processes and applications in paleoecology, paleoclimatology, archeology, plant taxonomy, and plant evolution are considered. No prerequisites. One field trip.

GEOL 5372 - Principles of Sedimentation
Credits: 3
Study of the origin and evolution of sedimentary rocks in terms of interpretation of marine and non-marine sedimentary record.

GEOL 5374 - Petroleum Geology
Credits: 3
Application of geologic principles to the location and recovery of hydrocarbon resources in the crust of the earth. Prerequisite: Permission of the instructor.

GEOL 5380 - Principles of Stratigraphy
Credits: 3
Evolution and application of modern stratigraphic concepts, and the development of stratigraphic nomenclature. Emphasis on the integration of physical, biological and chemical parameters in interpretation of the rock record. Prerequisites: GEOL 3340 and CHEM 1304, or permission of instructor.

GEOL 5384 - Hydrogeology
Credits: 3
Introduces the chemical and physical behavior of natural waters and the role of fluids in geologic processes. Includes the application of thermodynamics, kinetics, and fluid mechanics to understand such geologic processes as ore formation, sediment diagenesis, isograd formation, acid rain, global warming, and groundwater contamination. Prerequisites: MATH 1338 and CHEM 1304, or permission of instructor.

GEOL 5386 - Geochemistry
Credits: 3
A survey of geochemical processes within the Earth and at its surface, emphasizing mineral-water interactions and application of the principles of chemical equilibrium to the solution of geochemical problems. Prerequisite: GEOL 3452 or permission of instructor.

GEOL 5389 - Theory of Digital Data Processing in Geophysics
Credits: 3
Covers linear transform theory, convolution, correlation, linear systems, Shannon sampling theorem, discrete Fourier transform, fast Fourier transform, Z-transform, inverse filtering, recursive filtering, optimum filtering, deconvolution, and power spectrum analysis. Prerequisite: MATH 3313 or permission of instructor.

GEOL 5392 - Introduction to Seismology
Credits: 3
Basic principles of seismology. Prerequisites: MATH 3313 and permission of instructor.

GEOL 5399 - Special Topics in Earth Sciences
Credits: 3
Topics of special interest not covered by the regular curriculum, taught by visiting scientists and those with temporary appointments at SMU. Can be cotaught together with faculty of the department. Prerequisite: GEOL 3340 or permission of instructor.

GEOL 5459 - Soils and Paleosols
Credits: 4
A lecture, lab, and field-based course about modern and ancient (paleosol) soil description, classification, and genesis. Emphasizes environmental controls on soil formation and distribution across Earth's landscapes. Recommended: CHEM 1303, CHEM 1304, CHEM 1113, CHEM 1114, CHEM 3351. Prerequisites: One 1300-level GEOL course and GEOL 3343, GEOL 3451, GEOL 3452, GEOL 3472.

Environmental Sciences Course

ENSC 3300 - Special Topics Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval is required. May be repeated for credit under different subtitle. A maximum of 6 credit hours may be applied toward the B.S. degree in environmental science.

Environmental Studies Courses

ENST 1300 - Environmental Studies Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 2300 - Environmental Studies Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitles.

ENST 3300 - Special Topics Abroad
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval is required. May be repeated for credit under different subtitle. A maximum of 6 credit hours may be applied toward the B.A. degree in environmental studies.

Economics

www.smu.edu/economics

Professor Daniel Millimet, **Department Chair**

Professors: Nathan Balke, Raveendra Batra, Rajat Deb, Klaus Desmet, Tom Fomby, Kathy Hayes (Director of Undergraduate Studies), Daniel Millimet, Santanu Roy, Tim Salmon
Associate Professors: Bo Chen, James Lake, Thomas Osang, Omer Ozak, Saltuk Ozerturk
Assistant Professors: Hao Dong, Wookun Kim, Rocio Madera, Nathaniel Pattison, Michael Sposi
Senior Lecturers: Helen Reynolds, Elizabeth Wheaton
Lecturer: Marcela Giraldo

General Information

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

Notes for All Economics Majors:

1. ECO 3301 and ECO 3302 require prior completion of MATH 1309 or MATH 1337.
2. All economics courses at the 4000 level or above require prior completion of STAT 2331 or STAT 4340.
3. Additional recommended or required preparation for courses is indicated within the course descriptions.
4. Questions concerning specific courses and the undergraduate program in general should be directed to the economics undergraduate adviser and the director of undergraduate studies.
5. Students majoring in economics are urged to consult a departmental adviser periodically to review their degree plans and progress.
6. Subfields: The B.S. degree plans require the student to satisfy at least one subfield in economics when choosing advanced economic courses. The following are approved subfields:
   Econometrics (2 out of 5): ECO 5350, ECO 5375, ECO 6352, ECO 6380, ECO 6391
   Economic Growth and Development (2 out of 2): ECO 5360, ECO 5362
   Economics of Industrial Organization (2 out of 2):ECO 4371, ECO 4382
   International Economics (2 out of 2): ECO 5357, ECO 5358
   Labor Economics (2 out of 2): ECO 4351, ECO 4361
   Economics of Decision-Making (2 out of 4): ECO 5340, ECO 5341, ECO 5342, ECO 5353
   Monetary Economics (2 out of 2): ECO 4385, ECO 4386
   Public Economics (2 out of 6): ECO 4345, ECO 4355 , ECO 4365, ECO 5320 , ECO 5365, ECO 5366

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

Admission of SMU Students to an Economics Major

Regular admission to any economics major requires:

1. Completion of 30 credit hours
2. Minimum all-college cumulative GPA of 2.700.
3. A minimum GPA of 2.700 in the Economics subset:
   WRTR 1312/WRTR 2303/WRTR 2305
   ECO 1311
   ECO 1312
   MATH 1309 or MATH 1337
   STAT 2331 or STAT 4340

Notes:

1. For declaration purposes, the subset GPA and all-college cumulative GPA are recorded at the end of the term the student completes the Economics subset AND has at least 30 cumulative credit hours.
2. Once a student enters SMU, all remaining subset courses must be completed through enrollment at SMU.

3. With the exception of courses completed under the Grade Replacement Repeat Policy (under Grades for Repeated Courses in the Grade Policies section of the catalog), the subset GPA is calculated using the first graded attempt of these courses, even if the course was later repeated.
4. All subset courses must be taken for a grade, with the exception of those courses in which the student has test credit.
5. Students must earn a *C*- or better in all subset courses prior to declaring an economics major. Current University grading policy, as summarized under Academic Forgiveness in the General Policies section of this catalog, permits forgiveness of academic work taken 10 or more years prior to the term of declaration. Academic work forgiven under this policy will not be included in the subset or all-college cumulative GPA.
6. Examination by CLEP, AP or IB will be ignored, and the subset will be based on coursework for which a grade has been given. For example, if the student received AP credit for MATH 1309/MATH 1337, their subset would use only STAT 2331, ECO 1311, ECO 1312 and WRTR 1312/WRTR 2303/WRTR 2305.
7. For admission to the economics B.S. with management information applications concentration, students must complete the subset requirements of the OREM department, which include EMIS 1360 (students are limited to a maximum of two enrollments in this course), MATH 1337 and MATH 1338, WRTR 1312/WRTR 2303/WRTR 2305 and WRTR 1313/WRTR 2304/WRTR 2306 or equivalent, and CS 1341 and CS 1342, with a 3.000 average subset GPA and a *C* or better in each subset course. MATH 1309 will not be accepted. For the Management Science subset GPA, only the first graded attempt is included in the subset GPA except for courses repeated using the First-Year Repeat Policy or the Grade Replacement Repeat Policy. Once a student enters SMU, all remaining subset courses must be completed through enrollment at SMU.

Departmental Distinction

The student majoring in economics with sufficiently high standing may graduate with departmental distinction by pursuing a rigorous independent research project under the direction of a faculty sponsor. The research will occur while enrolled in ECO 4398. The project will be presented to the faculty sponsor and director of undergraduate studies at the end of the term. The course prerequisites for ECO 4398 are: ECO 3301, ECO 3302, STAT 2331 or STAT 4340, two 4000+ level economics courses, a minimum GPA of 3.700 in economics classes, and a minimum overall GPA of 3.500.

Economics with Finance Applications, B.S.

This B.S. degree combines specialized training in economics with a concentration in areas significant to financial markets. It is particularly suited to those seeking a career in the financial sector. All advanced economics courses must have the ECO prefix with the exception of FINA 3320 and FINA 4326, which substitutes for ECO 4368 and ECO 4378, respectively. (FINA courses are open only to students who are declared majors in a Business degree plan through the Cox School of Business.)

Note: Any 5000- or 6000-level courses taken to complete an approved economic field may also be used to satisfy the requirement for the B.S. degree of at least six credit hours (two courses) at the 5000 level and above.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Economics (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics

Financial Economics (9 Credit Hours)

- ECO 3355 - Money and Banking

One of the following options:

Option 1:

- ECO 4368 - Foundations of Financial Economics
- ECO 4378 - Financial Economics and Investment Behavior

Option 2 (FINA courses open to Cox majors only):

- FINA 3320 - Financial Management
- FINA 4326 - Investment Analysis and Portfolio Management

Mathematics and Statistics (6 Credit Hours)

- MATH 1309 - Introduction to Calculus for Business and Social Science
  or
- MATH 1337 - Calculus I

- STAT 2331 - Introduction to Statistical Methods
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Computer Science and Engineering (3 Credit Hours)

One course from the following:

- CS 1340 - Introduction to Computing Concepts
- CS 1341 - Principles of Computer Science
- ITOM 3306 - Operations Management (for business majors only)

Accounting (6 Credit Hours)

- ACCT 2301 - Introduction to Financial Accounting
- ACCT 2302 - Introduction to Managerial Accounting

Advanced Economics Elective Courses (18 Credit Hours)

Six courses from the list below, with at least 6 credit hours (two courses) at the 5000 level and above.

At least one of the approved subfields listed above in "Notes for All B.S. in Economics Majors" *must be satisfied by the advanced economics courses selected.*

- ECO 4301 - Topics
- ECO 4330 - Economics of Human Rights
- ECO 4340 - Cultural Economics
- ECO 4345 - Ethics in Economics
- ECO 4351 - Labor Economics
- ECO 4355 - Environmental Economics
- ECO 4361 - Economics of Education
- ECO 4365 - State and Local Government
- ECO 4371 - Theory of Industrial Structure
- ECO 4376 - Special Topics in Economic History and Development
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 4386 - Topics in Monetary Economics
- ECO 4390 - Independent Study in Economics
- ECO 4398 - Departmental Distinction in Economics
- ECO 5337 - Urban Economics
- ECO 5340 - Decision-Making Under Uncertainty
- ECO 5341 - Strategic Behavior

- ECO 5342 - Experimental and Behavioral Economics
- ECO 5350 - Introductory Econometrics
- ECO 5353 - Law and Economics
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- ECO 5375 - Economic and Business Forecasting
- ECO 5380 - Computing For Economics
- ECO 6352 - Applied Econometrics
- ECO 6380 - Predictive Analytics

Total for the Major Only: 54 Credit Hours

Economics, B.A.

The B.A. degree in economics is designed primarily for students who want a liberal arts education with an emphasis on economics but with great breadth. All advanced economics courses must have the ECO prefix, with the exception of FINA 3320 and FINA 4326, which substitutes for ECO 4368 and ECO 4378, respectively. (FINA courses are open only to students who are declared majors in a Business degree plan through the Cox School of Business.)

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Economics (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics

Mathematics and Statistics (6 Credit Hours)

- MATH 1309 - Introduction to Calculus for Business and Social Science
  or
- MATH 1337 - Calculus I

- STAT 2331 - Introduction to Statistical Methods
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Advanced Elective Courses (18 Credit Hours)

Six courses from the list below:

- ECO 3355 - Money and Banking
- ECO 4301 - Topics
- ECO 4330 - Economics of Human Rights
- ECO 4340 - Cultural Economics
- ECO 4345 - Ethics in Economics
- ECO 4351 - Labor Economics

- ECO 4355 - Environmental Economics
- ECO 4361 - Economics of Education
- ECO 4365 - State and Local Government
- ECO 4368 - Foundations of Financial Economics
- ECO 4371 - Theory of Industrial Structure
- ECO 4376 - Special Topics in Economic History and Development
- ECO 4378 - Financial Economics and Investment Behavior
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 4386 - Topics in Monetary Economics
- ECO 4390 - Independent Study in Economics
- ECO 4398 - Departmental Distinction in Economics
- ECO 5337 - Urban Economics
- ECO 5340 - Decision-Making Under Uncertainty
- ECO 5341 - Strategic Behavior
- ECO 5342 - Experimental and Behavioral Economics
- ECO 5350 - Introductory Econometrics
- ECO 5353 - Law and Economics
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- ECO 5375 - Economic and Business Forecasting
- ECO 5380 - Computing For Economics
- ECO 6352 - Applied Econometrics
- ECO 6380 - Predictive Analytics
- FINA 3320 - Financial Management (Cox majors only)
- FINA 4326 - Investment Analysis and Portfolio Management (Cox majors only)

Total for the Major Only: 36 Credit Hours

Economics, B.A. or B.S. - Accelerated Pathway to Applied Economics, M.A.

This accelerated M.A. in applied economics is a pathway for selected SMU undergraduates to earn a bachelor's and a master's degree in significantly less time than earning the two degrees separately. While working on their undergraduate degrees, current students have the opportunity to take an accelerated path toward obtaining the M.A. in applied economics. Once accepted, the accelerated pathway will allow for such students to receive both a B.A./B.S. in economics and an M.A. in applied economics in potentially five years of entering the university. Up to nine credit hours of suitably chosen graduate courses taken during the undergraduate years can be counted toward the M.A. degree in applied economics. All students will be required to complete a minimum total of 120 credits of coursework to earn the bachelor's degree and a minimum total of 30 credits of coursework to earn the master's degree.

Admission Requirements

SMU undergraduates majoring in economics who want to pursue the accelerated M.A. in applied economics program should consult with the director of undergraduate studies for approval before the end of the spring semester of their sophomore year or after completing 60 credit hours including transfer coursework and test credits. Approved candidates should work closely with the director of undergraduate studies throughout their remaining undergraduate studies to plan the appropriate undergraduate curriculum. To become a candidate for the accelerated master's program, the student must:

- Be enrolled in the economics B.A. or B.S undergraduate program at SMU
- Officially apply to the accelerated M.A. in applied economics program no later than one year prior to the time when the student would graduate with a bachelor's degree
- Have at least two recommendation letters from faculty members at SMU

In addition, by the time of admittance into the M.A. in applied economics program, the student must have the following:

1. An undergraduate cumulative GPA of at least 3.000 (on a 4.000 scale) throughout the student's undergraduate career.
2. Twelve hours of undergraduate economics courses, including two intermediate theory courses, one in price theory (microeconomics), and one in macroeconomics, with a grade of *B* or above in each of these courses.
3. An introductory course in statistics, with a grade of *B* or above.
4. One term of calculus, with a grade of *B* or above.

Candidates for the accelerated master's program must maintain good academic standing and satisfy the above criteria to be officially admitted to the M.A. program in applied economics.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Degree Requirements for the M.A.

To receive an M.A. degree in applied economics under the accelerated pathway, the student must:

- Have a cumulative GPA of at least 3.000 (on a 4.000 scale) in the M.A. degree coursework (including the graduate coursework applied toward the bachelor's degree requirements)
- Complete a minimum total of 30 credit hours of graduate coursework at SMU (including the credit hours transferred from the bachelor's degree)
- Have been awarded an undergraduate degree at SMU and fulfilled other requirements for the M.A. degree in applied economics

Courses

Students should refer to the Economics section of the Undergraduate Catalog for the B.A./B.S. degree requirements:

- Economics, B.A.
- Economics, B.S.
- Economics with Finance Applications, B.S.

Students should refer to the Economics section of the Graduate Catalog for the M.A. degree requirements:

- Applied Economics, M.A., Applied Economics Track
- Applied Economics, M.A., International Economics and Policy Track
- Applied Economics, M.A., Law and Economics Track

Economics, B.S.

The B.S. degree in economics offers more specialized training in economics and provides a firm basis for graduate study in business, economics or law. All advanced economics courses must have the ECO prefix with the exception of FINA 3320 and FINA 4326, which substitutes for ECO 4368 and ECO 4378, respectively. (FINA courses are open only to students who are declared majors in a Business degree plan through the Cox School of Business.)

Note: Any 5000- or 6000-level courses taken to complete an approved economic field may also be used to satisfy the requirement for the B.S. degree of at least six credit hours (two courses) at the 5000 level and above.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Economics (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics

Mathematics and Statistics (9 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

One from the following:

- STAT 2331 - Introduction to Statistical Methods
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Econometrics (3 Credit Hours)

- ECO 5350 - Introductory Econometrics

Advanced Elective Courses (21 Credit Hours)

Seven courses from the list below, with at least 3 credit hours (one course) at the 5000 level and above.

At least one of the approved subfields listed in "Notes for All B.S. in Economics Majors" *must be satisfied by the advanced economics courses selected.*

- ECO 3355 - Money and Banking
- ECO 4301 - Topics
- ECO 4330 - Economics of Human Rights
- ECO 4340 - Cultural Economics
- ECO 4345 - Ethics in Economics
- ECO 4351 - Labor Economics
- ECO 4355 - Environmental Economics
- ECO 4361 - Economics of Education
- ECO 4365 - State and Local Government
- ECO 4368 - Foundations of Financial Economics
- ECO 4371 - Theory of Industrial Structure
- ECO 4376 - Special Topics in Economic History and Development
- ECO 4378 - Financial Economics and Investment Behavior
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 4386 - Topics in Monetary Economics
- ECO 4390 - Independent Study in Economics
- ECO 4398 - Departmental Distinction in Economics
- ECO 5337 - Urban Economics
- ECO 5340 - Decision-Making Under Uncertainty
- ECO 5341 - Strategic Behavior
- ECO 5342 - Experimental and Behavioral Economics

- ECO 5350 - Introductory Econometrics
- ECO 5353 - Law and Economics
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- ECO 5375 - Economic and Business Forecasting
- ECO 5380 - Computing For Economics
- ECO 6352 - Applied Econometrics
- ECO 6380 - Predictive Analytics
- FINA 3320 - Financial Management (Cox majors only)
- FINA 4326 - Investment Analysis and Portfolio Management (Cox majors only)

Total for the Major Only: 45 Credit Hours

Economics, B.S. - Management Information Applications Concentration

This concentration within the B.S. degree combines specialized training in economics, econometrics and management information systems in areas important to the study of big data. In order to take any upper-level OREM classes, students must complete the subset requirements of the OREM department, which include EMIS 1360 (students are limited to a maximum of two enrollments in this course), MATH 1337 and MATH 1338, WRTR 1312/WRTR 2303/WRTR 2305 and WRTR 1313/WRTR 2304/WRTR 2306 or equivalent, and CS 1341 and CS 1342, with a 3.000 average subset GPA and a *C* or better in each subset course. All advanced economics courses must have the ECO prefix with the exception of FINA 3320 and FINA 4326 which substitute for ECO 4368 and ECO 4378, respectively. (FINA courses are open only to students who are declared majors in a Business degree plan through the Cox School of Business.)

Note: Any 5000- or 6000-level courses taken to complete an approved economic field may also be used to satisfy the requirement for the B.S. degree of at least six credit hours (two courses) at the 5000 level and above.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Concentration in Management Information Applications

Economics (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics

Econometrics (6 Credit Hours)

- ECO 5350 - Introductory Econometrics

At least one from the following:

- ECO 5375 - Economic and Business Forecasting
- ECO 5380 - Computing For Economics
- ECO 6352 - Applied Econometric Analysis

- ECO 6380 - Predictive Analytics for Economics

Engineering (18 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- EMIS 1360 - Introduction to Management Science
- EMIS 2360 - Engineering Economy
- EMIS 3360 - Operations Research

- EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
  or
- CS 4340/STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Mathematics and Statistics (9 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra
- STAT 6307 (recommended)

Advanced Economics Elective Courses (15 Credit Hours)

Five courses from the list below, with at least 6 credit hours (two courses) at the 5000 level and above.

- ECO 3355 - Money and Banking
- ECO 4301 - Topics
- ECO 4330 - Economics of Human Rights
- ECO 4340 - Cultural Economics
- ECO 4345 - Ethics in Economics
- ECO 4351 - Labor Economics
- ECO 4355 - Environmental Economics
- ECO 4361 - Economics of Education
- ECO 4365 - State and Local Government
- ECO 4368 - Foundations of Financial Economics
- ECO 4371 - Theory of Industrial Structure
- ECO 4376 - Special Topics in Economic History and Development
- ECO 4378 - Financial Economics and Investment Behavior
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 4386 - Topics in Monetary Economics
- ECO 4390 - Independent Study in Economics
- ECO 4398 - Departmental Distinction in Economics
- ECO 5337 - Urban Economics
- ECO 5340 - Decision-Making Under Uncertainty
- ECO 5341 - Strategic Behavior
- ECO 5342 - Experimental and Behavioral Economics
- ECO 5353 - Law and Economics
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- ECO 5375 - Economic and Business Forecasting

- ECO 5380 - Computing For Economics
- FINA 3320 - Financial Management (Cox majors only)
- FINA 4326 - Investment Analysis and Portfolio Management (Cox majors only)

Total for the Major Only: 60 Credit Hours

Economics Minor

Students who minor in economics must have a GPA of at least 2.000 in economics courses attempted and must receive at least a grade of *C*- in all classes counting toward the minor. Nonlecture classes (including ECO 4185, ECO 4186, ECO 4187, ECO 4387, ECO 4390 and ECO 4398) cannot be used toward an economics minor. All advanced economics courses must have the ECO prefix; no substitutions are allowed.

Requirements for the Minor

Economics (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics

Mathematics and Statistics (6 Credit Hours)

- MATH 1309 - Introduction to Calculus for Business and Social Science
  or
- MATH 1337 - Calculus I

- STAT 2331 - Introduction to Statistical Methods
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Advanced Economics Elective Courses (6 Credit Hours)

Two courses from the list below:

- ECO 4301 - Topics
- ECO 4330 - Economics of Human Rights
- ECO 4340 - Cultural Economics
- ECO 4345 - Ethics in Economics
- ECO 4351 - Labor Economics
- ECO 4355 - Environmental Economics
- ECO 4361 - Economics of Education
- ECO 4365 - State and Local Government
- ECO 4368 - Foundations of Financial Economics
- ECO 4371 - Theory of Industrial Structure
- ECO 4376 - Special Topics in Economic History and Development
- ECO 4378 - Financial Economics and Investment Behavior
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 4386 - Topics in Monetary Economics
- ECO 4390 - Independent Study in Economics
- ECO 4398 - Departmental Distinction in Economics
- ECO 5337 - Urban Economics
- ECO 5340 - Decision-Making Under Uncertainty
- ECO 5341 - Strategic Behavior
- ECO 5342 - Experimental and Behavioral Economics
- ECO 5350 - Introductory Econometrics

- ECO 5353 - Law and Economics
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- ECO 5375 - Economic and Business Forecasting
- ECO 5380 - Computing For Economics
- ECO 6352 - Applied Econometrics
- ECO 6380 - Predictive Analytics

Total: 24 Credit Hours

Economics Courses

ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
Credits: 3
Explains tools of economic analysis and focuses on the individual participants in the economy: producers, workers, employers, and consumers.

ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
Credits: 3
Covers inflation, unemployment, and growth from both national and global perspectives. Tools of economic analysis include models of open economies. Prerequisite: C- or better in ECO 1311.

ECO 2301 - Topics in Economics
Credits: 3
Topics vary. The course may not be used to satisfy requirements for either an economics major or minor. Prerequisite: ECO 1310, ECO 1311, or ECO 1312.

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

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

ECO 3311 - Topics in Economics
Credits: 3
Topics vary. Prerequisites: ECO 1311 and ECO 1312.

ECO 3355 - Money and Banking
Credits: 3
Analyzes central and commercial banking. Prerequisites: C- or better in ECO 1311, ECO 1312. Reserved for economics majors and markets and cultures majors only.

ECO 4185 - Internship in Economics
Credits: 1
This advanced economics internship credit course requires weekly journal entries reflecting student experience. Prerequisites: ECO 3301, ECO 3302; two advanced economics classes (4000-level or above); STAT 2301, STAT 2331, or STAT 4340; and approval of the director of undergraduate studies.

ECO 4186 - Internship in Economics II
Credits: 1
This advanced economics internship credit course requires weekly journal entries reflecting student experience. Prerequisites: ECO 3301, ECO 3302; two advanced economics classes (4000 level or above); STAT 2301, STAT 2331, or STAT 4340; and approval of the director of undergraduate studies.

ECO 4187 - Internship in Economics III
Credits: 1
This advanced economics internship credit course requires weekly journal entries reflecting student experience. Prerequisites: ECO 3301, ECO 3302; two advanced economics classes (4000 level or above); STAT 2301, STAT 2331, or STAT 4340; and approval of the director of undergraduate studies.

ECO 4301 - Topics
Credits: 3
Topics vary. Prerequisites: C- or better in ECO 3301, ECO 3302 or permission of instructor.

ECO 4330 - Economics of Human Rights
Credits: 3
Investigates decision-making factors and economic theory related to human rights issues, specifically capital punishment, violence against women, seeking asylum, terrorism, child abuse, genocide, and hate. Prerequisites: C- or better in ECO 1311, ECO 1312, ECO 3301, ECO 3302.

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

ECO 4345 - Ethics in Economics
Credits: 3
An explanation of historical and current perspectives of how societies and economies function. Prerequisites: C- or better in ECO 3301; STAT 2301, STAT 2331, or STAT 4340.

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

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

ECO 4361 - Economics of Education
Credits: 3
An economic analysis of the state of the U.S. educational system. Topics include trends in academic achievement, educational production functions, teacher labor markets, and educational reforms. Prerequisites: C- or better in the following: ECO 3301 and STAT 2301, STAT 2331, or STAT 4340.

ECO 4365 - State and Local Government
Credits: 3
Examines how state and local governments make decisions about what services to provide their constituents and how to finance those services. Prerequisites: C- or better in the following: ECO 3301 and STAT 2301, STAT 2331, or STAT 4340.

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

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

ECO 4376 - Special Topics in Economic History and Development
Credits: 3
Economic principles are used to explore important and controversial questions. Prerequisite: C- or better in the following: ECO 3301 and STAT 2301, STAT 2331, or STAT 4340.

ECO 4378 - Financial Economics and Investment Behavior
Credits: 3
Gives a theoretical basis for financial analysis within the context of the total process of investment decision-making and develops the theoretical foundations for analysis of equities and bonds as well as portfolio performance. Prerequisites: ECO 4368 or FINA 3320 and C- or better in ECO 3301 and in STAT 2301, STAT 2331, or STAT 4340. Reserved for economics majors and minors. (ECO 4378 cannot be taken if the student has taken FINA 4326.)

ECO 4382 - Economics of Regulated Industries
Credits: 3
Examines why government regulation of business exists and what impact it has on firms' behavior, market structure, and social welfare. Prerequisites: C- or better in the following: ECO 3301 and STAT 2301, STAT 2331, or STAT 4340.

ECO 4385 - Macroeconomics: Theory and Policy
Credits: 3
Examines new developments in the analysis of business cycles, the causes and consequences of inflation, and the sources of economic growth. Prerequisites: C- or better in the following: ECO 3301, ECO 3302 and STAT 2301, STAT 2331, or STAT 4340.

ECO 4386 - Topics in Monetary Economics
Credits: 3
An in-depth look at selected topics of current interest in the field of monetary theory and policy. The topics covered vary from year to year. Prerequisites: C- or better in the following: ECO 3301, ECO 3302 and STAT 2301, STAT 2331, or STAT 4340.

ECO 4387 - Internship in Economics
Credits: 3
Provides a unique and innovative opportunity for students to engage in an economics internship experience that further develops students' personal and professional skills while earning academic credit. May not count for credit towards any major in the Economics department.

ECO 4390 - Independent Study in Economics
Credits: 3
By arrangement with departmental director of undergraduate studies. Eligible students undertake a research paper under the supervision of the faculty sponsor and give an oral presentation of the paper. Note: This course can only be taken once. Prerequisites: ECO 3301, ECO 3302, two advanced economics classes (4000-level or above), 2.500 GPA in economics classes, and one of the following: STAT 2301, STAT 2331, or STAT 4340.

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

ECO 5337 - Urban Economics
Credits: 3
Applies economic concepts to an understanding of urban form, urban growth, trends in size and structure of urban areas, and the predominant urban public issues of transportation, housing, land-use planning, and environmental controls. Provides an opportunity to study particular topics in depth. Prerequisites: C- or better in the following: ECO 3301 and STAT 2331 or STAT 4340.

ECO 5340 - Decision-Making Under Uncertainty
Credits: 3
Provides a basis for the modeling of decision-making under conditions of incomplete information. Prerequisites: C- or better in the following: ECO 3301, ECO 3302 and STAT 2301, STAT 2331, or STAT 4340.

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

ECO 5342 - Experimental and Behavioral Economics
Credits: 3
Students study the field of behavioral economics in which the underlying assumptions of economics models are tested using experimental techniques. Guided by behavioral regularities, new models of behavior are introduced. Prerequisites: C- or better in ECO 3301 and STAT 2301, STAT 2331, or STAT 4340. Recommended: ECO 5341, ECO 5350.

ECO 5350 - Introductory Econometrics
Credits: 3
The basic concepts of econometrics and, in particular, regression analysis, with topics geared to first-time regression users. Prerequisites: Graduate standing or C- or better in the following: MATH 1309 or MATH 1337; ECO 3301; and STAT 2301, STAT 2331, or STAT 4340.

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

ECO 5357 - International Trade
Credits: 3
Examines international trade in goods and services among countries and develops a framework for analyzing trade policy issues. The course covers only the real effects of trade and not international financial issues. Prerequisites: C- or better in the following: ECO 3301 and STAT 2301, STAT 2331, or STAT 4340.

ECO 5358 - International Macroeconomic Theory and Policy
Credits: 3
Explores implications of contemporary banking and foreign exchange practices, with a focus on the macroeconomic interactions among national economies and international systematic adjustments expected from market disturbances and shifting government policies. Students evaluate the operation of the international monetary system from the gold-standard period to the present. Prerequisites: C- or better in the following: ECO 3301, ECO 3302 and STAT 2301, STAT 2331, or STAT 4340.

ECO 5360 - Economic Development: Macroeconomic Perspectives
Credits: 3
A macroeconomic examination of the economic issues faced by developing countries. Topics include population growth, national savings, capital accumulation, human capital formation, government institutions, and international integration. Prerequisites: Graduate standing or C- or better in the following: ECO 3302 and STAT 2301, STAT 2331, or STAT 4340.

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

ECO 5365 - Federal Government Expenditures
Credits: 3
Focuses on theoretical principles useful for analyzing the role of government intervention. Topics may vary from year to year. Prerequisites: C– or better in ECO 3301, MATH 1309 or MATH 1337, and one of the following: STAT 2301, STAT 2331, or STAT 4340.

ECO 5366 - Federal Government Taxation
Credits: 3
Develops principles to be used when evaluating a specific tax and uses them to investigate specific federal revenue sources such as taxes on personal and corporate income. Prerequisites: C– or better in ECO 3301, MATH 1309, or MATH 1337, and one of the following: STAT 2301, STAT 2331, or STAT 4340. Recommended: ECO 3302.

ECO 5375 - Economic and Business Forecasting
Credits: 3
Presentation of methods used by economists to forecast economic and business trends and ways of evaluating the usefulness of these methods. Students may not receive credit for this course and STAT 4375. Prerequisites: C- or better in the following: STAT 2331 or STAT 4340; and ECO 5350.

ECO 5380 - Computing For Economics
Credits: 3
Emphasis on learning computer programs commonly used in economics with the objective of teaching programming skills used in data discovery and summarization, graphics, file manipulation, iterative procedures, and simulations. Programs could include SAS, R, PYTHON, STATA, SPSS, MATLAB, and SQL. Prerequisites: For undergraduate students: C- or better in ECO 3301, ECO 3302, and ECO 5350; MATH 1309 or MATH 1337; and STAT 2331 and STAT 4340. For graduate students: C- or better in ECO 5350 or permission of instructor.

English

www.smu.edu/english

Associate Professor Richard Bozorth, **Department Chair**

Professors: Darryl Dickson-Carr, Thomas DiPiero, Ezra Greenspan, Jasper Neel, Timothy Rosendale, Rajani Sudan, Steven Weisenburger
Associate Professors: Richard Bozorth, Greg Brownderville (Director of Creative Writing), Timothy Cassedy (Director of Undergraduate Studies), Daniel Moss, Beth Newman, Jayson Gonzales Sae-Saue, Bonnie Wheeler
Assistant Professors: Katherine Condon, Paul Edwards, Samantha Pergadia, Jacob Rubin, Martha Satz, Emma Wilson
Professor of Practice: Carol Dickson-Carr
Assistant Professor of Practice: Sanderia Smith
Senior Lecturers: Stephanie Amsel (Director of Writing and Reasoning), Vanessa Hopper, Marta Krogh, Bruce Levy, Pauline Newton, Ona Seaney, Lori Ann Stephens
Lecturers: Joan Arbery, Shu Feng, Richard Hermes, Meghan Johnson, Misty Lawrenson, Samantha Mabry, Russ McConnell, Jonathon McGregor, Mary Catherine Mueller, Susan Norman, Ashley O'Neill, Kristen Polster, Emily Sharma, Sam Ross Sloan, Richard Treat, Angela Wood

General Information

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

Departmental Distinction

This program is open to seniors by invitation. To enter the program, a student ordinarily must earn an overall GPA of at least 3.000 by the middle of the junior year, and a 3.500 average or better in courses fulfilling requirements for the major. Candidates for distinction must take ENGL 4397 in the fall of the senior year. Candidates completing ENGL 4397 with a grade of *B*+ or better will then choose from the following options: ENGL 4399 (culminating in a senior thesis); or a graduate pro-seminar in English numbered 6320–6380 (requires permission of instructor); or (for creative writing specialists only) ENGL 4390. Candidates must earn a *B*+ or better in the option selected, and attain a 3.500 GPA in all courses counting toward the major and distinction. ENGL 4390, ENGL 4397 and ENGL 4399 and may not be used to satisfy the 12 hours required in 4000-level courses. A minimum of 36 hours is required to graduate with departmental distinction.

English, B.A.

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

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

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

The major requires a minimum of 33 credit hours of English courses, including no more than 12 hours at the 2000 level and below (of these hours, no more than three hours at the 1000 level) and at least 12 hours of 4000 level liturature courses.

Students pursuing an English major with a specialization in creative writing must fulfill all requirements for the English major. All 12 elective hours within the regular major will be devoted to creative writing courses: namely, ENGL 2390 followed by three sections of ENGL 3390.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (6 Credit Hours)

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

One course from the following:

- ENGL 2312 - Fiction
- ENGL 2313 - Drama
- ENGL 2315 - Introduction to Literary Study

Reading Historically (12 Credit Hours)

Two courses at the 3000 or 4000 level from each historical period below:

Pre-1775 (800-1775)

- ENGL 3320 - Topics in Medieval Literature
- ENGL 3329 - Courtly Cultures and King Arthur
- ENGL 3330 - Topics in Early Modern Literature
- ENGL 3331 - British Literary History I: Chaucer to Pope
- ENGL 3332 - Shakespeare
- ENGL 3335 - Transatlantic Encounters I
- ENGL 4321 - Studies in Medieval Literature
- ENGL 4323 - Chaucer
- ENGL 4330 - Renaissance Writers
- ENGL 4332 - Studies in Early Modern British Literature
- ENGL 4333 - Shakespeare
- ENGL 4336 - Studies in Early Modern American Literature
- ENGL 4339 - Transatlantic Studies I

Post-1775 (1775-present)

- ENGL 3340 - Topics in British Literature in the Age of Revolutions
- ENGL 3341 - British Literary History II: Wordsworth Through Yeats
- ENGL 3344 - Victorian Gender and Sexuality
- ENGL 3345 - Transatlantic Encounters II
- ENGL 3346 - American Literary History I
- ENGL 3347 - Topics in American Literature in the Age of Revolutions
- ENGL 3348 - History of Print and Digital Culture in America
- ENGL 3350 - Topics in Modern and Contemporary British Literature
- ENGL 3355 - Transatlantic Encounters III
- ENGL 3360 - Topics in Modern and Contemporary American Literature
- ENGL 3362 - African–American Literature
- ENGL 3363 - Chicana/Chicano Literature
- ENGL 3364 - Women and the Southwest

- ENGL 3365 - Jewish–American Literature and Culture
- ENGL 3366 - American Literary History II
- ENGL 3367 - Ethical Implications of Children's Literature
- ENGL 4340 - Romantic Writers
- ENGL 4341 - Victorian Writers
- ENGL 4343 - Studies in British Literature in the Age of Revolutions
- ENGL 4346 - Studies in American Literature in the Age of Revolutions
- ENGL 4349 - Transatlantic Studies II
- ENGL 4350 - Modern and Contemporary British Writers
- ENGL 4351 - Studies in Modern and Contemporary British Literature
- ENGL 4360 - Studies in Modern and Contemporary American Literature
- ENGL 4369 - Transatlantic Studies III

Criticism and Theory (3 Credit Hours)

- ENGL 3310 - Research and Critical Writing for Literary Studies
  or
- ENGL 4310 - Studies in Literary Theory and Criticism

Major Electives (12 Credit Hours)

Four additional ENGL courses.

Creative Writing Specialization (12 Credit Hours)

For students specializing in creative writing, the following courses are taken instead of the four major electives:

- ENGL 2390 - Introduction to Creative Writing *(This course is a prerequisite for all additional creative writing courses.)*
- Three sections of ENGL 3390 - Creative Writing Workshop

Total for the Major Only: 33 Credit Hours

Notes:

- The following courses are not acceptable as major electives: ENGL 1300, ENGL 1400, ENGL 2102, and ENGL 2302.
- Creative writing courses at the 4000 level do not fulfill the 4000-level literature requirement.

English Minor

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

Requirements for the Minor

Core Course (3 Credit Hours)

One course from the following:

- ENGL 2311 - Poetry
- ENGL 2312 - Fiction
- ENGL 2313 - Drama
- ENGL 2314 - Doing Things With Poems
- ENGL 2315 - Introduction to Literary Study

Minor Electives (12 Credit Hours)

Four ENGL courses, with at least three advanced courses at the 3000 level and above.

Total: 15 Credit Hours

Note: ENGL 1300, ENGL 1400, ENGL 2102, and ENGL 2302 may not be used to fulfill minor requirements.

English Courses

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

Writing and Reasoning	ENGL 1300, WRTR 1311, WRTR 1312, WRTR 1313, WRTR 2303, WRTR 2304, WRTR 2305, WRTR 2306
Expository Writing (00–09)	ENGL 3301, ENGL 3308
Genre, Method, Criticism (10–19)	ENGL 2310, ENGL 2311, ENGL 2312, ENGL 2313, ENGL 2314, ENGL 2315, ENGL 2318, ENGL 3310, ENGL 3318, ENGL 4310, ENGL 4397
Pre-1775 (20-39)	ENGL 1320, ENGL 1330, ENGL 3320, ENGL 3329, ENGL 3330, ENGL 3331, ENGL 3332, ENGL 3335, ENGL 4321, ENGL 4323, ENGL 4330, ENGL 4332, ENGL 4333, ENGL 4336, ENGL 4339
Post-1775 (40-69)	ENGL 1360, ENGL 1363, ENGL 1365, ENGL 3340, ENGL 3341, ENGL 3344, ENGL 3345, ENGL 3346, ENGL 3347, ENGL 3348, ENGL 3350, ENGL 3355, ENGL 3360, ENGL 3362, ENGL 3363, ENGL 3364, ENGL 3365, ENGL 3366, ENGL 3367, ENGL 4340, ENGL 4341, ENGL 4343, ENGL 4346, ENGL 4349, ENGL 4350, ENGL 4351, ENGL 4360, ENGL 4369
Other Literature/Language Courses (70–89)	ENGL 1380, ENGL 1385, ENGL 3189, ENGL 3370, ENGL 3371, ENGL 3374, ENGL 3376, ENGL 3377, ENGL 3379, ENGL 3381, ENGL 3383, ENGL 3384, ENGL 3385, ENGL 3389, ENGL 4370
Creative Writing (90–99)	ENGL 2390, ENGL 3390, ENGL 4390

Writing and Reasoning Courses

WRTR 1311 - Foundations of Writing

Credits: 3

Provides students with practice in the reading, writing, and analytical skills necessary for the successful completion of WRTR 1312 and WRTR 1313. Students approach writing as a process of drafting, revising, and editing, and they work on sentence-level and paragraph-level writing skills as they build toward essay-length writing projects. Students must earn a C- or better to pass this course.

WRTR 1312 - Introduction to Academic Writing

Credits: 3

Teaches students the foundations of university-level writing. By the end of the course, students will have developed competency, clarity, coherence, and organization in their writing. In order to prepare students for more advanced critical reasoning in WRTR 1313, this course serves as a foundation for learning effective writing and analytical reasoning skills. Students learn the basics of argument and the use of rhetorical strategies in written materials and develop skills in critical reading. Students examine and analyze an array of source materials within and outside the classroom. Students must earn a C- or better to pass this course. Prerequisite: WRTR 1311 or one of the following test scores: 580 on the SAT Critical Reading or 21 on the ACT English section.

WRTR 1313 - Writing and Critical Reasoning

Credits: 3

Teaches students to analyze arguments by employing high order critical thinking skills. Students learn to identify sound from faulty premises, detect logical fallacies, distinguish strong from weak conclusions, evaluate sources and become information literate. To demonstrate an understanding of the techniques of critical reasoning, students write essays, conduct research, and engage in a variety of additional university-level writing assignments. Students must earn a C- or better to pass this course. Prerequisite: C- or better in WRTR 1312 or ENGL 1301.

WRTR 2303 - Hilltop Scholars Academic Writing

Credits: 3
Teaches students the foundations of university-level writing. By the end of the course, students will have developed competency, clarity, coherence, and organization in their writing. In order to prepare students for more advanced critical reasoning in WRTR 2304, this course serves as a foundation for learning effective writing and analytical reasoning skills. Students learn the basics of argument and the use of rhetorical strategies in written materials and develop skills in critical reading. Students examine and analyze an array of source materials within and outside the classroom. Students must earn a C- or better to pass this course. Restricted to students in the Hilltop Scholars Program.

WRTR 2304 - Hilltop Scholars Writing and Critical Reasoning
Credits: 3
Teaches students to analyze arguments by employing high order critical thinking skills. Students learn to identify sound from faulty premises, detect logical fallacies, distinguish strong from weak conclusions, evaluate sources and become information literate. To demonstrate an understanding of the techniques of critical reasoning, students write essays, conduct research, and engage in a variety of additional university-level writing assignments. Students must earn a C- or better to pass this course. Restricted to students in the Hilltop Scholars Program. Prerequisite: C- or better in WRTR 2303.

WRTR 2305 - University Honors Humanities Seminar I
Credits: 3
Offers a study of literature, linguistics, philosophy, psychology, and science that became major modes of interpreting the world in the 20th century and defined what constitutes knowledge in the 21st century. Students must earn a C- or better to pass this course. Restricted to students in the University Honors Program.

WRTR 2306 - University Honors Humanities Seminar II
Credits: 3
Offers a study of ethical questions derived from history, literature, psychology, and philosophy that focuses on what constitutes a meaningful life. Explores historical challenges to the bases of ethics. Students must earn a C- or better to pass this course. Restricted to students in the University Honors Program. Prerequisite: C- or better in WRTR 2305.

English Courses

ENGL 1300 - Foundations for Rhetoric
Credits: 3
Writing paragraphs and short, analytic, thesis-directed essays in response to texts. Work on reading comprehension, principles of effective sentence construction, and punctuation.

ENGL 1320 - Cultures of Medieval Chivalry
Credits: 3
The development of the ideal of chivalry from its origins in the medieval legends of King Arthur to modern literature.

ENGL 1330 - The World of Shakespeare
Credits: 3
Introductory study of eight or nine of Shakespeare's important plays, placed in historical, intellectual, and cultural contexts.

ENGL 1360 - The American Heroine
Credits: 3
Images of the American heroine in popular and traditional literature, studied in terms of their reflection of the evolving roles of American women.

ENGL 1363 - The Myth of the American West
Credits: 3
The myth and reality of the American West as seen through key works of history, folklore and fiction, including study of the serious Western novel and the subliterary Western.

ENGL 1365 - Literature of Minorities
Credits: 3
Representative works of African-American, Asian-American, gay, Hispanic-American, and Native American literature, in their immediate cultural context and against the background of the larger American culture.

ENGL 1372 - English Studies Abroad
Credits: 3
SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 1380 - Introduction to Literature
Credits: 3
An introduction to the study of literature including a range of literary genres and periods, varying by term.

ENGL 1385 - Power, Passion, and Protest in British Literature
Credits: 3
A survey of the history of British literature, from its medieval beginnings to the 20th century, with emphasis on literature as an instrument of power and desire.

ENGL 1400 - Developmental Reading and Writing
Credits: 4
Students will receive explicit, systematic instruction in reading comprehension and apply fundamental reading skills to narrative and expository texts as well as to coordinated writing assignments of varying lengths.

ENGL 2102 - Spreadsheet Literacy: Excel for Students in the Humanities and Natural and Social Sciences
Credits: 1
An introduction to Excel as it is commonly used in the workplace. Students will learn to organize and analyze data, use and link worksheets, create tables and charts, and communicate results of their analyses in clear, readable prose.

ENGL 2302 - Business Writing
Credits: 3
Introduction to business and professional communication, including a variety of writing and speaking tasks, and the observation and practice of rhetorical strategies, discourse conventions, and ethical standards associated with workplace culture. Prerequisite: WRTR 1312, WRTR 2303, or WRTR 2305.

ENGL 2306 - Honors Humanities Seminar II
Credits: 3
A study of ethical questions derived from history, literature, psychology, and philosophy that focuses on what constitutes a meaningful life. The course also explores historical challenges to the bases of ethics. Prerequisite: WRTR 2305.

ENGL 2310 - Imagination and Interpretation
Credits: 3
An introduction to literary studies based on topics that vary from term to term.

ENGL 2311 - Poetry
Credits: 3
Analysis, interpretation, and appreciation of poetry, with attention to terms and issues relevant to the genre.

ENGL 2312 - Fiction
Credits: 3
Analysis, interpretation, and appreciation of fiction, with attention to terms and issues relevant to the genre.

ENGL 2313 - Drama
Credits: 3
Analysis, interpretation, and appreciation of dramatic works, with attention to terms and issues relevant to the genre.

ENGL 2314 - Doing Things With Poems
Credits: 3
Introduction to the study of poems, poets, and how poetry works, focusing on a wide range of English and American writers. Some attention to matters of literary history. Open only to students in the University Honors Program.

ENGL 2315 - Introduction to Literary Study
Credits: 3
An introduction to the discipline for beginning English majors, covering methods of literary analysis in selected texts spanning a range of genres and historical periods.

ENGL 2318 - Literature and Digital Humanities: An Introduction
Credits: 3
Examines how technology can advance our understanding of language, literature, and culture. A hands-on introduction to applying cutting-edge technologies including text mining, digitization, metadata, and mapping to analyze literature.

ENGL 2372 - English Studies Abroad
Credits: 3
SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 2390 - Introduction to Creative Writing
Credits: 3
Workshop on the theory and techniques of writing fiction, poetry, and creative nonfiction.

ENGL 3189 - Directed Studies
Credits: 1
Directed readings in a coherent area of a student's choice to be approved by the director of undergraduate study and the instructor.

ENGL 3285 - Internship in English Studies
Credits: 2
Work experience related to English studies, with instruction in professional communication. Workshop format and one-on-one consultation with instructor. Requires 90 hours of internship work. Prerequisite: Open only to junior and senior English majors by permission of instructor.

ENGL 3301 - Advanced Expository Writing
Credits: 3
Emphasis on styles and formats appropriate to academic writing, and on individual problems and needs.

ENGL 3308 - Internship in English Studies
Credits: 3
Work experience related to English studies, with instruction in professional communication. Workshop format and one-on-one consultation with instructor. Requires 135 hours of internship work. Prerequisite: Open only to junior and senior English majors by permission of instructor.

ENGL 3310 - Research and Critical Writing for Literary Studies
Credits: 3
Gateway course designed as an intensive introduction to the study of nineteenth and twentieth century literary texts that explores several key questions: What is a text? What are some of the approaches thoughtful critics have taken in recent years to the analysis of texts? How do we as readers make sense both of texts and of their critics? How, in practice, do we progress from the reading to the written analysis of texts? Employs a combination of lecture, discussion group activity, and writing exercises with the goal of refining critical thinking, reading, and writing skills. Prerequisite: WRTR 1313, WRTR 2304, or WRTR 2306.

ENGL 3318 - Literature as Data
Credits: 3
Examines a range of theoretical and technological approaches that allow us to think about literature as data and what that means for literary interpretation. By interrogating theoretical and practical approaches to using technology to analyze literary texts and comparing these with traditional literary scholarship, this course taps into big questions about how – if at all – digital methods change literary studies, and the extent to which thinking about literature as data really is a new idea. Recommended prerequisite: ENGL 2318.

ENGL 3320 - Topics in Medieval Literature
Credits: 3
Study of a theme, issue, or topic in English literature from its beginnings to 1500, varying by term. May be repeated for credit under a different subtitle.

ENGL 3329 - Courtly Cultures and King Arthur
Credits: 3
Study of Britain's greatest native hero and one of the world's most compelling story stocks: the legends of King Arthur and the Knights of the Round Table.

ENGL 3330 - Topics in Early Modern Literature
Credits: 3
Study of a theme, issue, or topic in British literature c. 1500–1775, varying by term. May be repeated for credit under a different subtitle.

ENGL 3331 - British Literary History I: Chaucer to Pope
Credits: 3
Introduction to earlier periods of English literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

ENGL 3332 - Shakespeare
Credits: 3
Studies of Shakespeare's major works in context with English history, society, and culture, including literary and theatrical conventions and practices. Topics vary by term; may be repeated for credit under a different subtitle.

ENGL 3335 - Transatlantic Encounters I
Credits: 3
Comparative studies in British and American literature during the early modern period (c. 1500–1775), with attention to issues of first contact, colonization, and cultural interrelations. Topics vary by term; may be repeated for credit under a different subtitle.

ENGL 3340 - Topics in British Literature in the Age of Revolutions
Credits: 3
Study of a theme, issue, or topic in British literature c. 1775–1900, varying by term. May be repeated for credit under a different subtitle.

ENGL 3341 - British Literary History II: Wordsworth Through Yeats
Credits: 3
Introduction to later periods of English literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

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

ENGL 3345 - Transatlantic Encounters II
Credits: 3
Comparative studies in British and American literature during the Age of Revolutions (c. 1775–1900), with attention to cultural interrelations during a period of rapid social change. Topics vary by term; may be repeated for credit under a different subtitle.

ENGL 3346 - American Literary History I
Credits: 3
Introduction to earlier periods of American literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

ENGL 3347 - Topics in American Literature in the Age of Revolutions
Credits: 3
Study of a theme, issue, or topic in American literature c. 1775–1900, varying by term. May be repeated for credit under a different subtitle.

ENGL 3348 - History of Print and Digital Culture in America
Credits: 3
An overview of the history of written communications in America from the introduction of the first printing press in the English colonies to the present era of digital and multimedia culture. Moves across four centuries of writing to introduce students from various disciplinary tracks to the sprawling multidiscipline of the history of the book in its basic theoretical, methodological, and practical dimensions. Examines 1) a literary history of the United States; 2) a narrative of the history of the cultural production, dissemination, and consumption of writing - broadly and inclusively defined - in North America; 3) communications issues crucial to American culture, such as literacy, intellectual property, and freedom of speech; and 4) the formation of the institutions (including schools, libraries, bookstores, print shops, publishing houses, and houses of worship), laws (especially copyright and freedom of speech laws), and technologies that have mediated America's communications history and given rise to American literature, culture, and society. Major topics include the history of American literature; local, regional, and national formation through print; print and race, ethnicity, and gender; the history of authorship, reading, and publishing; the history of journalism; censorship versus freedom of speech; the uses of literacy; the formations of lowbrow, middlebrow, and highbrow culture; and the history of libraries and archives, with and without walls.

ENGL 3350 - Topics in Modern and Contemporary British Literature
Credits: 3
Study of a theme, issue, or topic in British literature c. 1900 to the present, varying by term. May be repeated for credit under a different subtitle.

ENGL 3355 - Transatlantic Encounters III
Credits: 3
Comparative studies of British and American writing in the period of modern and contemporary literature (c. 1900 to the present), with attention to cultural interrelations during the period. Topics vary by term; may be repeated for credit under a different subtitle.

ENGL 3360 - Topics in Modern and Contemporary American Literature
Credits: 3
Study of a theme, issue, or topic in American literature c. 1900 to the present, varying by term. May be repeated for credit under a different subtitle.

ENGL 3362 - African–American Literature
Credits: 3
Major African–American writers and their works, and various social and historical influences.

ENGL 3363 - Chicana/Chicano Literature
Credits: 3
A broad examination of major 20th–century Mexican–American writers and their works in the context of various social, geographic, political, and historical influences. Some knowledge of Spanish is helpful to students but is not a prerequisite for the course.

ENGL 3364 - Women and the Southwest
Credits: 3
A study and exploration of women writers, artists, and thinkers in the American Southwest and their vision of this region as singularly hospitable to women's culture.

ENGL 3365 - Jewish–American Literature and Culture
Credits: 3
An interdisciplinary introduction to Jewish culture through literature, especially in the American environment, as well as to the issues in studying any distinctive ethnic and cultural literature.

ENGL 3366 - American Literary History II
Credits: 3
Introduction to later periods of American literature through the study of major authors in their historical context and from varied critical and thematic perspectives.

ENGL 3367 - Ethical Implications of Children's Literature
Credits: 3
Examination of children's literature with emphasis on notions of morality and evil, including issues of colonialism, race, ethnicity, gender, and class.

ENGL 3370 - Special Topics
Credits: 3
Examination of a subject that includes material from a range of historical periods. Topics vary by term; examples include pastoral literature; Shakespeare in England and India; and irony, satire, and politics. May be repeated for credit under a different subtitle.

ENGL 3371 - Joan of Arc: History, Literature, and Film
Credits: 3
The life and later reception of the extraordinary peasant girl Joan of Arc (c. 1412–1431), who in the 2 years before she was burned at the stake changed the course of European history.

ENGL 3372 - English Studies Abroad
Credits: 3
SMU credit for English courses taken in University-approved programs abroad. Departmental consent required.

ENGL 3374 - Literature of Religious Reflection
Credits: 3
Issues of faith and doubt in British and American literature, drawn from texts reflecting Christian humanism, secular rationalism, individualistic romantic faith, and scientific modernism and other modern alternatives.

ENGL 3376 - Literature of the Southwest
Credits: 3
Includes 19th– and 20th–century Anglo, Hispanic, and Native American literature of the southwestern United States.

ENGL 3377 - Literature and the Construction of Homosexuality
Credits: 3
Examination of same–sex desire in modern literature, as considered in the context of philosophical, religious, and scientific texts since the ancient world.

ENGL 3379 - Literary and Cultural Contexts of Disability: Gender, Care, and Justice
Credits: 3
An examination of disability as a cultural construct, with attention to how literary, ethical, and political representations bear upon it, and in relation to gender, race, and class issues.

ENGL 3381 - Semiotics of Culture
Credits: 3
Analysis of form, technique, and meaning in literary and textual representation, in comparison or in conjunction with other representational media such as painting, photography, and cinema. Topics vary by term; may be repeated for credit under a different subtitle.

ENGL 3383 - Literary Executions: Imagination and Capital Punishment
Credits: 3
The literary treatment of capital punishment in drama, poetry, novel, and biography.

ENGL 3384 - Literature and Medicine
Credits: 3
How literature reveals the experiences, ethics, and values of those who suffer and their healers.

ENGL 3385 - Literature of the Holocaust
Credits: 3
Explores the literature of the Holocaust and issues of the possibility of aesthetic portrayal of this horrific event. It considers Holocaust literature and post–Holocaust literature.

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

ENGL 3389 - Directed Studies
Credits: 3
Directed readings in a coherent area of a student's choice, to be approved by the director of undergraduate studies and the instructor.

ENGL 3390 - Creative Writing Workshop
Credits: 3
Focuses on a single genre such as fiction, creative nonfiction, or poetry, but may cover multiple genres. Drawing on the lessons of ENGL 2390, students write and revise creative work, and critique that of their classmates. Students read brilliant texts and in so doing educate their taste. At the heart of this course is a respect for the Nabokovian standard of "aesthetic bliss." Prerequisite: ENGL 2390.

ENGL 4310 - Studies in Literary Theory and Criticism
Credits: 3
An advanced study of a theoretical or critical problem in literary study and interpretation. Topics could include questions of history, major theoretical movements, and cultural studies. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4321 - Studies in Medieval Literature
Credits: 3
Advanced study of medieval literature focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4323 - Chaucer
Credits: 3
Advanced studies in the poetry of Geoffrey Chaucer in relation to historical contexts, medieval poetics, and Middle English language. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4330 - Renaissance Writers
Credits: 3
Intensive study of one or two major writers from the period in context with English social and cultural history. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4332 - Studies in Early Modern British Literature
Credits: 3
Advanced study of British literature c. 1500-1775, focused on a specific problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

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

ENGL 4336 - Studies in Early Modern American Literature
Credits: 3
Advanced study of American literature c. 1500-1775, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

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

ENGL 4340 - Romantic Writers
Credits: 3
Intensive study of one or two major British writers from the period. May be repeated for credit under a different

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

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

ENGL 4343 - Studies in British Literature in the Age of Revolutions
Credits: 3
Intensive study of British literature c. 1775-1900, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4346 - Studies in American Literature in the Age of Revolutions
Credits: 3
Advanced study of American literature c. 1775-1900, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

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

ENGL 4350 - Modern and Contemporary British Writers
Credits: 3
Intensive study of one or two major writers from the period. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4351 - Studies in Modern and Contemporary British Literature
Credits: 3
Advanced study of British literature c. 1900 to the present, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4360 - Studies in Modern and Contemporary American Literature
Credits: 3
Advanced study of American literature c. 1900 to the present, focused on a specified problem, topic, or theme. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

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

ENGL 4370 - Special Studies
Credits: 3
Intensive study of a theme, genre, or topic that includes material from a wide range of eras. May be repeated for credit under a different subtitle. Prerequisites: ENGL 2311 or ENGL 2314, ENGL 2315, and two additional ENGL courses (excluding ENGL 1300, ENGL 1400, ENGL 2302) or instructor approval.

ENGL 4390 - Directed Study in Creative Writing
Credits: 3
An independent study directed by a creative writing faculty member. At least three months before the semester begins, the student should present a clear, detailed proposal to the professor and ask him or her to direct the course. ENGL 4390 should be taken in the spring semester of the senior year. Prerequisite: ENGL 4397.

ENGL 4393 - Directed Studies in Poetry Writing
Credits: 3
Prerequisite: Open only to advanced students by permission of instructor.

ENGL 4394 - Directed Studies in Fiction Writing
Credits: 3
Prerequisite: Open only to advanced students by permission of instructor.

ENGL 4395 - Directed Studies in Poetry Writing
Credits: 3
Prerequisite: Open only to advanced students by permission of instructor.

ENGL 4397 - Distinction Seminar
Credits: 3
A seminar for candidates for departmental distinction, designed to acquaint them with particular approaches to literature and research, including preparation for distinction projects. Prerequisite: Permission of instructor.

ENGL 4399 - Independent Studies
Credits: 3
Directed readings in an area of the student's choice, to be approved by the director of undergraduate studies and the instructor. Requires a substantial amount of critical writing. Open only to candidates for departmental distinction and to graduate students.

History

www.smu.edu/history

Professor Thomas Knock, **Department Chair**

Professors: John Chávez, Edward Countryman, Jeffrey Engel, Neil Foley, Andrew Graybill, Kenneth Hamilton, Thomas Knock, Alexis McCrossen, Daniel Orlovsky, Kathleen Wellman
Associate Professors: Sabri Ates (Director of Undergraduate Studies), Crista DeLuzio, Melissa Dowling, Kate Carté, Jo Guldi, Erin Hochman, Jill Kelly
Assistant Professors: Macabe Keliher, Bianca Lopez, Ariel Ron
Professor of the Practice of Human Rights: Rick Halperin
Pye Visiting Assistant Professor: Carlos Hernandez
Adjunct Assistant Professor: David Doyle
Senior Lecturer: Laurence Winnie
Adjunct Lecturers: Rachel Ball-Phillips, Brian Franklin, Brandon Miller

General Information

The William P. Clements Department of History offers three types of courses: introductory, survey, and more advanced courses that explore large areas of human history; intermediate thematic courses that mix lectures and small group discussions to explore more closely defined topics; and seminars that probe deeply into given areas. Each student should devise a program of study that meets individual interests and needs and also achieves a balance between diversification and specialization. Except where specified, there are no prerequisites, and interested students are invited into all courses.

Departmental Distinction

A history major with sufficiently high standing may graduate with honors in history by applying for the degree with departmental distinction. Eligible students (those who have completed 21 hours of history credit, including the junior seminar, with a 3.700 history GPA and overall 3.500 GPA) will be invited by the department chair to apply. During their senior year, candidates for distinction will pursue an individual research project under the direction of a particular professor (while enrolled in HIST 4375). This major research project will develop from the Junior Seminar (HIST 4300) or the Senior Seminar (HIST 4390). The research project will be presented as a thesis before the end of the term. The successful honors graduate must also pass an oral examination on the thesis before a committee of three history faculty members and receive at least an *A*- on the work.

History, B.A.

A total of 33 credit hours in history are required for the major, with at least 18 credit hours in courses at the 3000 level and above. Students must complete 18 hours of advanced coursework (3000 level and above) in the major in residence. Students must take at least six credit hours in American history, six credit hours in European history, and six credit hours in African, Asian, Latin American or Middle Eastern history.

All history majors are required to take HIST 4300 - Junior Seminar in Research and Writing, and HIST 4390 - Senior Seminar in Research and Writing. All advanced courses taken for the major must be passed with a grade of *C*- or better. History majors must earn 2.000 minimum GPAs in their history coursework and may not take history courses pass/fail.

Six credit hours of Advanced Placement (AP) credit can be applied toward the history major if the students received a four or higher on AP history exams in European history or American history.

For more information on the major, contact the director of undergraduate studies: HistoryDUS@smu.edu

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors.

Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Areas (18 Credit Hours)

- United States History (two 3-credit hour courses)
- European History (two 3-credit hour courses)
- African, Asian, Latin American and Middle Eastern History (two 3-credit hour courses)

Junior Seminar (3 Credit Hours)

- HIST 4300 - Junior Seminar in Research and Writing (This required seminar does not count towards areas requirement.)

Senior Seminar

- HIST 4390 - Senior Seminar in Research and Writing (This required seminar counts toward the areas requirement or the electives.)

Elective Courses (12 Credit Hours)

Four additional courses chosen from the list of HIST courses and areas courses listed in the sections above.

Total for the Major Only: 33 Credit Hours

History Minor

Students with a general interest in history may pursue a minor by successfully completing 15 credit hours of departmental course credit. Nine credit hours must be successfully completed at the 3000 level and above. Students may transfer in no more than two of the five courses required for the minor. Only one of the three required advanced courses may be transferred in. Courses for the minor may not be taken pass/fail. All advanced courses (3000 level and above) taken for the minor must be passed with a grade of *C*- or better. Courses are listed on the History Department homepage. Students intending to take a minor in the department should design a program of study in consultation with the director of undergraduate studies.

History Courses

Foundation Courses	HIST 1311, HIST 1312, HIST 1321, HIST 1322
Junior and Senior Seminars	HIST 4300, HIST 4390
Department Distinction	HIST 4375
United States History	HIST 1321, HIST 2302, HIST 2306, HIST 2311, HIST 2312, HIST 2313, HIST 2337, HIST 2398, HIST 3301, HIST 3304, HIST 3305, HIST 3306, HIST 3307, HIST 3309, HIST 3310, HIST 3311, HIST 3312, HIST 3313, HIST 3314, HIST 3316, HIST 3319, HIST 3321, HIST 3324, HIST 3326, HIST 3327, HIST 3336, HIST 3347, HIST 3348, HIST 3364, HIST 3369, HIST 3370, HIST 3379, HIST 3384, HIST 3385, HIST 3394, HIST 3399, HIST 4304
European History	HIST 1311, HIST 1312, HIST 1322, HIST 2323, HIST 2330, HIST 2343, HIST 2344, HIST 2346, HIST 2350, HIST 2351, HIST 2352, HIST 2354, HIST 2365, HIST 2366, HIST 3302, HIST 3303, HIST 3320, HIST 3328, HIST 3329, HIST 3330, HIST 3332, HIST 3334, HIST 3335, HIST 3339, HIST 3340, HIST 3341, HIST 3342, HIST 3343, HIST 3345, HIST 3350, HIST 3351, HIST 3352, HIST 3353, HIST 3354, HIST 3355, HIST 3356, HIST 3357, HIST 3358, HIST 3359, HIST 3361, HIST 3362, HIST 3363, HIST 3365, HIST 3366, HIST 3368, HIST 3373, HIST 3374, HIST 3375, HIST 3381, HIST 4319, HIST 4372, HIST 4373, HIST 4385, HIST 5367

African, Asian, Latin American and Middle Eastern History	HIST 2301, HIST 2314, HIST 2315, HIST 2325, HIST 2379, HIST 2384, HIST 2385, HIST 2390, HIST 2391, HIST 2392, HIST 2394, HIST 2395, HIST 3318, HIST 3325, HIST 3344, HIST 3377, HIST 3378, HIST 3382, HIST 3383, HIST 3386, HIST 3389, HIST 3390, HIST 3393, HIST 3395, HIST 3396, HIST 3398
Digital History	HIST 1325, HIST 3342, HIST 3368, HIST 3380
Oral History	HIST 1326
Internship	HIST 4385
Independent Studies	HIST 4398, HIST 4399
SMU Abroad Courses	HIST 2100, HIST 2200, HIST 3100, HIST 3200, HIST 3300

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

HIST 1312 - Western Civilization Since 1527
Credits: 3
An introductory survey of Western civilization from about the time of the Reformation to the present.

HIST 1321 - Introductory Topics in American History
Credits: 3
Offers the first- or second-year student the opportunity for intensive exploration of particular topics in American history in a small-class setting.

HIST 1322 - Introductory Topics in European History
Credits: 3
Offers the first- or second-year student the opportunity for intensive exploration of particular topics in European history in a small-class setting.

HIST 1325 - Doing Digital History
Credits: 3
Builds historical knowledge and digital research skills, such as using historical databases, GIS analysis, data visualizations, data mining, and textual analysis, through investigation of selected topics in history.

HIST 1326 - Doing Oral History
Credits: 3
Introduction to the theory and practice of oral history through reading, discussion, and fieldwork. Students will design and implement a community oral history project.

HIST 2200 - History Studies Abroad
Credits: 2
SMU credit for history courses taken in University-approved programs abroad.

HIST 2301 - The Struggle for Human Rights in South Africa
Credits: 3
Considers the denial and pursuit of rights around four key areas integral to human rights: labor, spatial segregation, gender and sexuality, and education. Examines each of these to better understand how colonial and apartheid states denied the black majority political rights and how the new South Africa struggles to rectify centuries of inequality.

HIST 2302 - Presenting the American Revolution: History, Painting, Fiction, and Film
Credits: 3
Historians, painters, writers, and filmmakers all recover and interpret the past. This course explores the relationship between how historians and such artists have made sense of the American Revolution.

HIST 2306 - The Kids Are All Right
Credits: 3
Examines key issues associated with American youth from historical, literary, and other disciplinary perspectives. Considers children and adolescents in a variety of contexts: in the family, at school, at work, and at play, as well as examines their roles and influence as objects of reform, consumers, social activists, and cultural icons. Explores the multiple paths of growing up in the United States, especially the ways in which experiences and representations of childhood and adolescence have been shaped by the categories of gender, race, ethnicity, and social class.

HIST 2311 - Out of Many: U.S. History to 1877
Credits: 3
Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

HIST 2312 - Unfinished Nation: U.S. History Since 1877
Credits: 3
Growth of American civilization. General survey, with particular attention to social and political aspects. Open to first-year students.

HIST 2313 - History of African-American Popular Culture, 1890-1980
Credits: 3
Investigates the forces that shaped post-emancipation African-American popular entertainment, fashion, and mannerisms, with a focus on 1890-1980.

HIST 2314 - On the Edges of Empire: India and Mexico/American Southwest
Credits: 3
Provides an in-depth, interdisciplinary study of the British colonization of India and the expansion of New Spain into the northern borderlands of present-day Mexico and the American Southwest. Using film/visual culture in addition to historical texts, the course explores common themes of colonial ideologies, class/caste and gender formations, legal and economic systems, emerging regional and national identities, religious cultures, and other topics from the 18th century to the present.

HIST 2315 - Modern China
Credits: 3
Explores the social, political, and economic organization of life in modern China, from the rise of the market economy in the 15th century to the Communist Revolution and the founding of the People's Republic of China in 1949. Students discuss key issues including the foundations of late-imperial economy and society in the Ming dynasty, the Manchu conquest, the Qing expansion, European imperialism, modernization movements, Chinese revolutions, and the rise of Communism. No prior knowledge of Chinese history is assumed or required.

HIST 2323 - Russian Culture
Credits: 3
Significant aspects of Russian thought and culture at various stages of development, illustrated by examples from poetry, prose, drama, journalism, architecture, the fine arts, and music.

HIST 2325 - Human Rights in Modern South Asia
Credits: 3
Examines some of the most pressing human rights issues in 20th and 21st century South Asia, including questions of gender, environmental justice, and caste.

HIST 2330 - Radical Church: The Methodist Tradition in Wesley's Time and Our Own
Credits: 3
Spiritual movements today are reviving the question of how the Church should inhabit the world. This course takes a historical perspective on these questions, asking how early Methodists in Wesley's day engaged the same questions.

HIST 2337 - History of Sports in the United States
Credits: 3
The social, cultural, and business history of sport in the U.S. Focus on the cultural meaning and ethical components of sports in the 19th and 20th centuries.

HIST 2343 - History of Capitalism I: Britain and the World 1350-1870
Credits: 3
Surveys the institutions, ideas, and societies that experienced the rise of capitalism from 1350 to 1870. Topics include the rise of individual ownership, the expansion of states and bureaucracies, the era of land speculation, and the growth of social movements that questioned whether capitalism had fulfilled its promises to work for the betterment of all. Students may not receive credit for both HIST 2343 and HIST 3302.

HIST 2344 - History of Capitalism II: Britain and the World, 1870-Present
Credits: 3
Surveys the history of institutions, ideas, and experience in societies under advanced capitalism from approximately 1870 to the present. Topics include the history of labor movements and management, conflicts over individual and collective ownership, resistance to bureaucracy and the state, the consequences of a carbon economy, and the rise of an eviction culture. Students may not receive credit for both HIST 2344 and HIST 3303. *(Effective spring 2021)*

HIST 2346 - Modern England, 1714 to the Present
Credits: 3
A survey of modern English history from the accession of the Hanoverians to the present, with emphasis on social and political themes dealing with the transition from a landed to an industrial society. (SMU-in-Oxford)

HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
Credits: 3
A survey of the political, religious, and cultural history of Western Europe from Constantine the Great to the First Crusade.

HIST 2351 - Life in the Medieval World, 1095 to 1350
Credits: 3
A survey of the political, social, and intellectual structures that characterized the civilization of Western Europe between the First Crusade and the Black Death.

HIST 2352 - Greek Mythology and History
Credits: 3
Introduction to Greek mythology in its original ancient context, through primary sources (Greek plays, poems, and works of art).

HIST 2354 - Ancient Foundations of Modern Civilization
Credits: 3
An introduction to the study of the ancient world embracing both the ancient Near East and classical Greek and Roman civilization.

HIST 2365 - Europe in the Modern World, Renaissance to 1760
Credits: 3
An introductory survey of the growth of European civilization.

HIST 2366 - Europe in the Modern World, 1760 to the Present
Credits: 3
A continuation of HIST 2365.

HIST 2379 - A History of Islamic Empires
Credits: 3
Introduces the history of various Islamic empires and covers the period from 600 to 1750.

HIST 2384 - Latin America: The Colonial Period
Credits: 3
An introductory survey covering the development of Latin American society from prediscovery to the early 19th century.

HIST 2385 - Latin America in the Modern Era
Credits: 3
An introductory survey beginning with the 19th-century wars of independence from Spain and Portugal and emphasizing the 20th century as the new nations struggle for political stability and economic independence.

HIST 2390 - Civilization of India
Credits: 3
Introduction to the history, society, and cultural features of South Asia from the third millennium B.C.E. to the modern day.

HIST 2391 - Africa to the 19th Century
Credits: 3
History of Africa south of the Sahara, focusing on culture and social organization, the Bantu migrations, African kingdoms, contacts with the world, Islam, and the slave trade.

HIST 2392 - Modern Africa
Credits: 3
An introduction to the history of Africa since 1800. Focuses on a number of themes to enable a better understanding of the recent past of this vast continent. Major topics include 19th-century social, political, and economic revolutions in Southern and West Africa, the incorporation of the continent into the capitalist world economy, class formation under colonial rule, the rise of nationalism, and the politics of liberation.

HIST 2394 - China Before 1850
Credits: 3
Examines changes and continuities from Neolithic times to 1850 in Chinese state, society, and religion, and the relations among the three spheres, through scholarly writings and primary sources.

HIST 2395 - Modern East Asia
Credits: 3
A survey of modern East Asia emphasizing an outline of the traditional societies, the Western impact, Japanese industrialization and imperialism, Pearl Harbor, and the rise of Chinese communism.

HIST 3100 - History Studies Abroad
Credits: 1
SMU credit for history courses taken in University-approved programs abroad.

HIST 3200 - History Studies Abroad
Credits: 2
SMU credit for history courses taken in University-approved programs abroad.

HIST 3300 - History Studies Abroad
Credits: 3
SMU credit for history courses taken in University-approved programs abroad.

HIST 3301 - Human Rights: America's Dilemma
Credits: 3
This course examines violations of human rights within their historical contexts and explores the foundations of current human rights issues such as torture, terrorism, slavery, and genocide. Attention is given to the evolution of civil and human rights as entities within global political thought and practice.

HIST 3302 - The History of Modern Britain
Credits: 3
This introduction to modern Britain traces the themes of changes in politics, culture, and society from their origins through the rise of the modern nation-state. Students may not receive credit for both HIST 3302 and HIST 2343.

HIST 3303 - British Empire
Credits: 3
This introduction to Britain's empire traces the fate of Britain's holdings in Ireland, Scotland, and India, as well as the economic, social, and political consequences of empire in those places. Students may not receive credit for both HIST 3303 and HIST 2344.

HIST 3304 - African Americans and the Civil Rights Movement
Credits: 3
African Americans and the civil rights movement, with a focus on post-World War II migration, changing conceptions of race, increasing African-American prosperity, integration and black nationalism, and the lives of significant African-American leaders of the civil rights movement.

HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
Credits: 3
Examines major events in American foreign policy from the early national period to Pearl Harbor, emphasizing 19th-century continental expansion, early 20th-century imperialism, and American involvement in the world wars.

HIST 3307 - The U.S. and the Cold War, 1945-1989
Credits: 3
An examination of major events in American foreign policy since World War II, emphasizing policy toward Western Europe, the Soviet Union, Asia, and Latin America.

HIST 3309 - North American Environmental History
Credits: 3
Surveys North American environmental history since pre-Columbian times. It expands the customary framework of historical inquiry by focusing on the interaction of human beings and the natural world.

HIST 3310 - Problems in American History
Credits: 3
Explores historical issues or trends in U.S. history will be explored using a case study or comparative format.

HIST 3311 - 19th-Century American West
Credits: 3
History of the trans-Mississippi West in the 19th century, with an emphasis on major political, social, economic, and environmental themes of the region's history.

HIST 3312 - Women in American History to 1900
Credits: 3
Surveys the history of American women from the Colonial era to 1900 and introduces the major themes organizing these three centuries of U.S. women's history.

HIST 3313 - African Americans in the United States, 1607-1877
Credits: 3
Examines the people of the African continent, uprooted and enslaved, who continually grappled with the problem of how to preserve their dignity and identity in a hostile environment. The African Americans' adjustment to American society, their exterior struggle against political oppression, the interior nature of their group life, and the development of black institutions are critical to the course's concerns.

HIST 3314 - African Americans in the United States, 1877 to the Present
Credits: 3
Particular attention will be given to populism, disfranchisement, segregation and lynching, black leadership ideologies, the influence of mass migrations, the impact of the Great Depression and two world wars on black life,

the quest for equality in the 1950s and the civil rights movement in the 1960s, and the flowering of black culture and nationalism.

HIST 3316 - History of Sex in America
Credits: 3
This course will test the hypothesis that gender and sexuality are constructed categories. Readings in anthropology, history, literary criticism, and psychiatry will be utilized.

HIST 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
Credits: 3
Examines same-sex sexuality comparatively, using interdisciplinary readings, beginning with the Americas before European contact and then focusing on Europe, Asia, and Africa through time up until the present day.

HIST 3318 - History of Chinese Political and Social Thought
Credits: 3
Examines the emergence of empire in early China and how thinkers contributed to and confronted the phenomenon. Covers the neolithic era and rise of the Shang and Zhou states (ca. 1600-771 BCE). Explores the earliest responses to the human condition in the form of naturalism followed by the religious revolutions, which led to a contest of social and political ideas in the Warring States period (475-221 BCE). Culminates with the rise of empire in the form of the Qin and Han dynasties.

HIST 3319 - Texas History
Credits: 3
Texas as a crossroad of cultures from the 16th century to the present.

HIST 3320 - Reform, Republic, Terror, and Empire: The French Revolution, 1787-1804
Credits: 3
Explores the development of the Revolution from the eighteenth century through a succession of state forms. Accents the unstable yet powerful dynamics the Revolution unleashed into France and the world.

HIST 3321 - Religion in the United States to 1865
Credits: 3
Investigates the foundations of American religious culture, including native, African, and European traditions; colonization; early evangelicalism; the Revolutionary War; and the religious culture of the new United States.

HIST 3324 - The Mexican Americans, 1848 to the Present
Credits: 3
Traces the historical evolution of the Mexican-American people in the Southwest from pre-Columbian to modern times with emphasis on the era since the Mexican War.

HIST 3325 - Islam and Politics
Credits: 3
This course aims to familiarize students with the basics of Islam and explore the relationship between Islam as a religion and Islam as ideology.

HIST 3326 - US Religious History Since 1865
Credits: 3
Examines how religion functions in American life, as well as the diverse ways that various religious traditions have adapted to and altered the American religious landscape. Discusses the interplay between religion and politics, gender, science, culture, race, and immigration.

HIST 3327 - Women in American History From 1865
Credits: 3
Surveys the history of American women from 1865 to the present and introduces the major themes organizing this period of U.S. women's history.

HIST 3328 - History of Modern Germany
Credits: 3
Surveys developments in German society from unification under Bismarck to division in the wake of World War II, with particular attention given to Hitler's rise to power.

HIST 3329 - Women in Early Modern Europe
Credits: 3
A study of the influence of women in European society and intellectual movements from the Renaissance through the Enlightenment.

HIST 3330 - Women in Modern European History
Credits: 3
An exploration of the role of women in European society, from the cultures of Crete and Sumer to the present.

HIST 3332 - Ancient and Medieval France
Credits: 3
An exploration of selected themes that dominate the current history, archaeology, and historiography of ancient and medieval France, from the Paleolithic cave painters to Joan of Arc.

HIST 3334 - France Since 1789
Credits: 3
A history of France from 1789 to the present, with special emphasis on social and cultural history, including the French Revolution and its legacy, the development of 19th-century French society, and France during the two world wars.

HIST 3335 - One King, One Law: France 1500-1789
Credits: 3
The culture of France through its history and literature, emphasizing the historical developments, ideas, and literary texts that define the period and illuminate both French classicism and absolutism.

HIST 3336 - Cultural History of the United States
Credits: 3
Analysis of the literature, art, architecture, music, drama, popular amusements, and social customs of America since 1877.

HIST 3339 - History of Spain, 1469 to the Present
Credits: 3
The main social, political, and cultural topics of the history of the Iberian Peninsula from Columbus to the present. (For history majors, fulfills only the European requirement.)

HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
Credits: 3
The effects of the breakdown of the old regime and the establishment of Soviet power on Russian society and culture. Examines the evolution of political and social institutions, ideologies, literature and the arts against the backdrop of the era's turbulent political history.

HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
Credits: 3
Soviet, Russian, and Eurasian experience from historical, ethnographic, economic, social, and cultural perspectives, beginning with the present and going back to the roots of the Soviet state and society in the revolutionary experience, 1917-1921.

HIST 3342 - Text Mining as Historical Method
Credits: 3
Discusses the ways that new computer-powered methods are changing how information about society is accessed. This course, appropriate to both computationalists and those with a background in the humanities (but not code), teaches students how to analyze texts as data to find evidence of change over time.

HIST 3343 - 20th-Century Europe
Credits: 3
History of 20th-century Europe. Offered through international programs only.

HIST 3344 - Bollywood/Hollywood: Cinema in India and the West
Credits: 3
Examines the construction of national identity through Indian cinema as well as western depictions of India in American/European cinema.

HIST 3345 - England in Medieval and Early Modern Times
Credits: 3
Treats selected themes in the history of England to 1688, with special attention to formative periods and developments in the evolution of the English state. (SMU-in-Oxford)

HIST 3347 - Civil War and Reconstruction
Credits: 3
Examines the institution of slavery, the events leading to the Civil War, the war itself, and the subsequent efforts at reconstruction.

HIST 3348 - American Families: Changing Experiences and Expectations
Credits: 3
Explores changes in American family life from the Colonial period to the present. Seeks to understand how family ideals, structures, and roles have shaped and have been shaped by social and historical change.

HIST 3350 - A History of Ancient Egypt
Credits: 3
A history of ancient Egyptian civilization from construction of the pyramids to conquest by the Romans, explored through Egyptian literature, archaeology, and artifacts.

HIST 3351 - History of Ancient Near East
Credits: 3
Introduction to the civilizations, art, literature, and archaeology of the ancient Near East, from the origins of writing to conquest by Alexander the Great.

HIST 3352 - The Age of the Crusades
Credits: 3
Exploration of patterns of thought and behavior underlying and motivating the military, ideological, and general cultural confrontation between Christendom and Islam from the late 11th to the 14th centuries.

HIST 3353 - The History of Ancient Greece
Credits: 3
A study of the ways in which the various societies of ancient Greece approached the problem of defining, establishing, and maintaining an equitable social order.

HIST 3354 - Warfare and Diplomacy in Antiquity
Credits: 3
A study of the methods both of waging and of averting war in antiquity.

HIST 3355 - Class and Gender in Ancient Society
Credits: 3
An examination of class and gender in the ancient world, with emphasis on changing definitions of masculinity and femininity in Greek and Roman culture, as well as the position, rights, and interactions of different groups (e.g., free and slave, citizen and foreigner, soldier and civilian).

HIST 3356 - City of Light, City of Change: Paris in the Modern Era
Credits: 3
This course describes the experience of living in Paris beginning in the Old Regime to the modern era. It focuses on

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

HIST 3357 - Joan of Arc: History, Literature, and Film
Credits: 3
The life and later reception of the extraordinary peasant girl Joan of Arc (c. 1412-1431), who in 2 years changed the course of European history before she was burned at the stake.

HIST 3358 - The Renaissance
Credits: 3
A history of culture in the Renaissance from the perspective of advances in scholarship and science, and above all, in appreciation of social and political contexts.

HIST 3359 - Europe in the Age of the Reformation, 1520-1598
Credits: 3
The political, economic, religious and cultural history of Europe, including the impact of the Protestant and Catholic reform movements.

HIST 3361 - Roman History and the Roman Mind
Credits: 3
The development of Roman civilization from its earliest beginnings to the dawn of the Middle Ages.

HIST 3362 - The Vikings
Credits: 3
Traces the rise of small Scandinavian communities into powerful communities of raiders, conquerors, and colonizers during the Viking Age (c. 8th-12th centuries).

HIST 3363 - The Holocaust
Credits: 3
Examines the destruction of the European Jews as they emerged from pre-World War I anti-Semitism and Nazi racism. Considers Jewish responses to genocide, the behavior of bystanders, and possibilities of rescue.

HIST 3364 - History of Consumer Culture in the United States
Credits: 3
The history of the development of a consumer culture in the Unites States, with a focus in particular on consumer-oriented ideas, aesthetics, beliefs, and practices.

HIST 3365 - Problems in European History
Credits: 3
Historical events or trends of particular significance in the development of modern Europe will be examined with consideration of the ways in which historians have assessed and reassessed their viewpoints. Students will be invited to join in the controversy with a modest research project of their own. Topics will be selected in accordance with the interests of students and instructors and hence will vary from term to term.

HIST 3366 - Problems in European History
Credits: 3
Historical events or trends of particular significance in the development of modern Europe will be examined with consideration of the ways in which historians have assessed and reassessed their viewpoints. Students will be invited to join in the controversy with a modest research project of their own. Topics will be selected in accordance with the interests of students and instructors and hence will vary from term to term.

HIST 3368 - Digital History with Data Science
Credits: 3
What happens when a computer reads a million political debates? This class surveys how data science is changing the disciplines and gives students tools for creating their own insights.

HIST 3369 - Colonial America
Credits: 3
A study of the transfer of Europeans and Africans to the British mainland provinces and the development of a multicultural and multiregional colonial society.

HIST 3370 - The American Revolution
Credits: 3
A survey of political, social, and military history of the Revolutionary era. Major topics include the imperial crisis, mobilization and war, and state and federal constitutional development.

HIST 3373 - Science, Religion, and Magic in Early Modern England
Credits: 3
A study of the interaction of three ways of thinking about nature and the place of human beings within nature - science, magic and religion. Focuses on early modern England and religious divisions of the English Reformation and civil wars that brought political dissension and many competing views of nature and society.

HIST 3374 - Diplomacy in Europe: Napoleon to the European Union
Credits: 3
Treats the evolution of the European state system from the post-Napoleonic settlement through the end of the Cold War and creation of the European Union.

HIST 3376 - Intellectual History of Europe
Credits: 3
Covers European social, cultural, and intellectual development from 1848 to the present.

HIST 3377 - History of South Africa
Credits: 3
A survey of the history of South Africa from the 17th century to the present. Emphasis on the historical development of the patterns of economic, social, and political interaction among the peoples that led to the emergence of a majority-ruled, "new" South Africa.

HIST 3378 - Problems in African History
Credits: 3
Examines a particular topic in the history of Africa. Potential topics include the trans-Saharan caravan system, the arrival and spread of Islam, the rise of African-European cultures, the slave trade, the abolition of slavery, imperialism and colonial transformations, nationalism, liberation movements, independence and underdevelopment, and democratization.

HIST 3379 - A Cultural History of New Mexico
Credits: 3
Explores the history of struggles among the state's dominant ethnic groups - Native Americans, Hispanos, and Anglos - over rituals, spaces, and objects. (SMU-in-Taos)

HIST 3380 - Special Topics in Digital History
Credits: 3
Explores topics regarding the use of digital history to further historical analysis, presentation, and research. Topics vary.

HIST 3381 - The First World War and Its Impact
Credits: 3
This course explores the origins as well as the geopolitical, social, cultural, and economic impact of the Great War on Europe and the wider world.

HIST 3382 - History of Mexico
Credits: 3
Covers pre-Columbian, colonial, and independent Mexico. Culture and social developments are stressed.

HIST 3383 - A History of Iran
Credits: 3
This seminar aims to introduce students to the history, cultures, and peoples of Iran and familiarize them with this complex and increasingly important country.

HIST 3384 - History of the Consumer Economy in the United States
Credits: 3
The history of the production, distribution, and marketing of consumer goods and services in the United States since 1750.

HIST 3385 - D-Day: Operation Overlord and Europe's Liberation
Credits: 3
Examines the strategic, political, economic, logistical, and psychological aspects of Operation Overlord, the broad allied effort to invade and reconquer France. Students read multiple secondary literatures and primary sources; research a historical figure; keep a daily journal of their experiences; attend lectures and classes before departure; and then join a 10-day study trip, what the Prussian General Staff under Helmuth von Moltke the Elder called a "staff ride."

HIST 3386 - Orient and Occident: Encounters Between the Middle East and the West in the Modern Era
Credits: 3
Explores major themes in relations between the countries and cultures of the Middle East and Western Europe from the early modern era to the present, beginning with Napoleon's invasion of Egypt in 1798.

HIST 3389 - Problems in Middle Eastern History
Credits: 3
A contemporary topic is treated in historical perspective. Sample topics include the Arab-Israeli conflict, oil and the politics of energy, and Islamic fundamentalism.

HIST 3390 - Modern Middle East: 1914 to Present
Credits: 3
This survey course introduces students to history and politics of the contemporary Middle East.

HIST 3393 - China in Revolution
Credits: 3
Examines the century of revolution in China, from the mid-19th century to the present, beginning with the unique political and social structure of Old China, and analyzing the impact of Western imperialism and the creative responses of intellectuals, warlords, and revolutionaries.

HIST 3394 - The New Woman: The Emergence of Modern Womanhood in the U.S., 1890-1930
Credits: 3
Explores the experiences of a variety of women during 1890 to 1930, including feminists, reformers, intellectuals, artists, working women, mothers, high school and college students, and juvenile delinquents.

HIST 3395 - Problems in Asian History
Credits: 3
Explores historical issues, trends or special topics in Asian history will be explored using a thematic or comparative format.

HIST 3396 - Coexistence and Conflict in the Middle East
Credits: 3
Examines the consequences of being a member of a religious or ethnic minority in the pre-modern and modern Middle East. Analyzes how, in different periods and locations, Islamic powers coped with the question of ethno-religious diversity and kept alive an ethics of coexistence. Cases include early Islamic Empires, Muslim Spain, the

Abbasid Caliphate, the Ottoman Empire and Iran. Also studies changes brought to the region by the dissolution of the Ottoman Empire and the First World War, including the emergence of ethno-nationalist states like Turkey, Syria, and Israel, and their policies towards their minorities.

HIST 3398 - Women in Chinese History
Credits: 3
Examines changes and continuities from Neolithic times to today in women's roles in politics and the state, religions and ideologies, the family and its alternatives, and production and consumption.

HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
Credits: 3
A broad survey of American foreign relations in the 20th century. Traces the rise of the United States as a world power from Teddy Roosevelt's charge up Kettle Hill to the evacuation of Saigon in 1975.

HIST 4101 - Independent Study
Credits: 1
Independent study of a selected topic in history under the direction of a faculty member.

HIST 4185 - Internship in History
Credits: 1
An opportunity for students to apply historical skills in a public setting working with a supervisor of the student's work and a professor assessing the academic component of the project. Prerequisite: A minimum overall GPA of 2.500.

HIST 4285 - Internship in History
Credits: 2
An opportunity for students to apply historical skills in a public setting working with a supervisor of the student's work and a professor assessing the academic component of the project. Prerequisite: A minimum overall GPA of 2.500.

HIST 4300 - Junior Seminar in Research and Writing
Credits: 3
Consists of a common body of readings on research methods and writing and a relatively small core of required readings that are different in each section and organized around a topic chosen by the instructor. Closely supervised writing assignments, based upon the required readings, grow into a major research project by the end of the term.

HIST 4304 - At the Crossroads: Gender and Sexuality in the Southwest
Credits: 3
Approaches the study of New Mexico, and by extension the Southwest, through the lens of gender and sexuality. Examines the area's history and changes over time.

HIST 4314 - Jews in Europe: Middle Ages to the Present
Credits: 3
History of the Jews in Europe from the Middle Ages to the present.

HIST 4315 - History of East Central Europe
Credits: 3

HIST 4319 - Medieval Formation of English Culture
Credits: 3
When, where, and how was English culture - that globally widespread and distinctive variation of Western culture - formed? In the eighth to 16th centuries, in a realm with Oxford at its center.

HIST 4324 - Medieval Spirituality
Credits: 3

HIST 4325 - Islam to A.D. 1453
Credits: 3

HIST 4327 - India Before the Europeans
Credits: 3

HIST 4365 - Making of Australian Society
Credits: 3
Examines the working of Australian society with special emphasis given to either the 19th or 20th century or to particular themes such as the impact of war, the response of the Australians to booms and depressions, and Australian national character.

HIST 4367 - Russia From the Kievan Era to 1881
Credits: 3
Surveys the development of state and society from the beginnings of history in the East Slavic territory through the Era of the Great Reforms.

HIST 4372 - History of France I
Credits: 3
A study of the history of France.

HIST 4373 - History of Modern France
Credits: 3
A study of the history of modern France.

HIST 4375 - Departmental Distinction
Credits: 3
Honors program open to qualified seniors by invitation of the department.

HIST 4380 - Digital History Capstone
Credits: 3
A guided, intensive seminar that leads students through the creation and refinement of an expert project in the digital humanities. Prerequisite: Permission of instructor.

HIST 4385 - Internship in History
Credits: 3
An opportunity for students to apply historical skills in a public setting working with a supervisor of the student's work and a professor assessing the academic component of the project. Prerequisite: A minimum overall GPA of 2.500.

HIST 4388 - Georgian and Victorian England
Credits: 3
The history of Georgian and Victorian England 1714-1867.

HIST 4390 - Senior Seminar in Research and Writing
Credits: 3
Senior research or reading seminar in the specialty of the instructor. Topics vary. Required for the history major.

HIST 4398 - Independent Study
Credits: 3
History majors in their junior year may apply to the director of undergraduate studies to pursue a personally designed course of study under the guidance of an appropriate professor during the junior or senior year.

HIST 4399 - Independent Study
Credits: 3
History majors in their junior year may apply to the director of undergraduate studies to pursue a personally designed course of study under the guidance of an appropriate professor during the junior or senior year.

Interdisciplinary Programs and Courses

Biochemistry, B.S.

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

The B.S. degree in biochemistry reflects the interdisciplinary nature of modern biochemistry and includes courses in physics, mathematics, chemistry and biology. Undergraduate research is also highly recommended. These courses will prepare students for graduate study leading to a Ph.D. degree, for entrance to professional schools such as medicine, or for the chemical or biotechnology industry. The program includes a core of required courses but allows some flexibility in the choice of additional upper-division courses. Students planning to attend graduate school are advised to take at least three credits of undergraduate research (BIOL 3398, BIOL 4398 or CHEM 4397).

Note: There are two options for choosing the additional courses. Option 1 has been certified by the American Chemical Society for professional training in biochemistry. Option 2 provides a more traditional curriculum for biochemistry majors.

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

Departmental Distinction

A biochemistry major may graduate with departmental distinction by successfully completing a special program of study that includes independent reading and research and a senior thesis under the direction of a member of the faculty. The student must submit an application to the biochemistry adviser by the first term of the junior year and must have completed at least 22 hours toward the biochemistry degree with a GPA of at least 3.500 in courses required for the major. Upon approval from the respective departments, the student must enroll in the following courses: BIOL 4398, BIOL 4399 or CHEM 4397. Upon completion of these courses, the student will write a senior thesis and present it orally before a public audience including a faculty committee composed of the student's research adviser, the biochemistry adviser, and at least one additional faculty member. Upon successful completion of all degree requirements, the senior thesis and maintenance of a GPA of at least 3.500 in courses required for the major, the B.S. degree will be awarded with departmental distinction.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Chemistry Courses (25 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3351 - Quantitative Analysis

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory
- CHEM 5383 - Physical Chemistry I

- CHEM 5384 - Physical Chemistry II

Core Biological Sciences Courses (11 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics

Core Biochemistry Courses (4 Credit Hours)

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

Core Mathematics Courses (9 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus

Core Physics Courses (8 Credit Hours)

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I
  and
- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

Additional Courses (9-11 Credit Hours)

Choose Option 1 or Option 2.

Option 1 (11 Credit Hours)

Required (8 Credit Hours)

- CHEM 4397 - Undergraduate Research
- CHEM 5185 - Laboratory Methods in Physical Chemistry
- CHEM 5192 - Inorganic Synthesis Laboratory
- CHEM 5392 - Advanced Inorganic Chemistry

Electives (3 Credit Hours)

- BIOL 5311/CHEM 5311 - Biological Chemistry: Metabolism
  or
- BIOL 5344/CHEM 5344 - Physical Chemistry of Proteins

Option 2 (9 Credit Hours)

Required (6 Credit Hours)

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

Electives (3 Credit Hours)

- BIOL 5304 - Molecular Biology: Control and Expression of Genetic Information
  or
- BIOL 5344/CHEM 5344 - Physical Chemistry of Proteins

Total for the Major Only: 66-68 Credit Hours

Biophysical Sciences, B.S.

www.smu.edu/biophysics
Professor Jodi Cooley, **Director**

The B.S. degree in biophysical sciences bridges the disciplines of biology, chemistry and physics, connecting the complexity of life to the laws of physics. The program at SMU consists of core courses in biology, chemistry, physics, mathematics, and the School of Education. It includes the entire SMU prehealth curriculum and additional courses that provide advanced learning in order to provide a strong foundation for careers in medicine or research. The remaining credit hours can be obtained from a selection of elective courses that are available in the degree plan. This program is advised in the SMU Department of Physics.

Students obtaining a B.S. degree in biophysical sciences cannot receive a minor or second major in chemistry or physics. In addition, no advanced biology courses, except Genetics and Cell Biology, can be double counted towards a minor or second major in biology.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Physics Courses (23 Credit Hours)

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

- PHYS 1106 - Electricity and Magnetism Laboratory
- PHYS 3305 - Introduction to Modern Physics
- PHYS 3344 - Classical Mechanics
- PHYS 3374 - Thermodynamics and Statistical Mechanics
- PHYS 4392 - Introduction to Electromagnetic Theory
- PHYS 5382 - Introduction to Quantum Mechanics

Core Chemistry Courses (25 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- CHEM 5344 - Physical Chemistry of Proteins
- CHEM 5383 - Physical Chemistry I
- CHEM 5384 - Physical Chemistry II

Core Biology Courses (20 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- BIOL 5310 - Biological Chemistry: Macromolecular Structure and Function
- BIOL 5311 - Biological Chemistry: Metabolism

Core Math Courses (15 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3304 - Introduction to Linear Algebra
- MATH 3313 - Ordinary Differential Equations

Elective Courses (6 Credit Hours)

Any two courses from the following:

Applied Physiology and Sports Medicine

- APSM 3321 - Biomechanics

Physics

- PHYS 4311 - Laboratory Physics
- PHYS 4390 - Special Projects in Physics
- PHYS 5383 - Advanced Quantum Mechanics

Chemistry

- CHEM 5306 - Introduction to Computational Chemistry
- CHEM 5308 - Special Topics in Chemistry
- CHEM 5317 - Introduction to Molecular Modeling and Computer-Assisted Drug Design

Mathematics

- MATH 4335 - Mathematical Biology

Total for the Major Only: 89 Credit Hours

Classical Studies Minor

Associate Professor Melissa Dowling, **Director**

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

Requirements for the Minor

Classical Languages (6 Credit Hours)

Two courses from the Latin language sequence or the Greek language sequence:

- LATN 2311 - Second-Year Latin or other advanced Latin courses
- LATN 2312 - Second-Year Latin: Second Term or other advanced Latin courses

  or
- GRE 2311 - Intermediate Greek I
- GRE 2312 - Intermediate Greek II

Classical Studies (12 Credit Hours)

Four courses from the following, with at least one course from each group.

Group 1: Art History

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome (SMU-in-Rome)
- ARHS 3317 - Land Between Two Rivers: Art of Ancient Iraq and Its Neighbors
- ARHS 4310 - Seminar on Ancient Art
- WL 3378 - Pompeii: Life Interrupted

Group 2: History

- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3351 - History of Ancient Near East
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Group 3: Other

- CLAS 2311 - Myth and Thought in the Ancient World
- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition
- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid
- LATN 3330 - Special Topics Abroad in Latin
- LATN 3331 - Special Topics Abroad in Latin
- RELI 3318 - The Hero in the Bible and the Ancient Near East

- RELI 3319 - Old Testament
- RELI 3320 - Classical Judaism
- RELI 3326 - New Testament
- RELI 3348 - Temples, Churches, and Synagogues in the Ancient Mediterranean
- RELI 3352 - Love and Death
- RELI 3371 - The World of the New Testament
  Note: Only one 3000-level Latin course may count toward the minor.

Total: 18 Credit Hours

Classical Studies Course

CLAS 2311 - Myth and Thought in the Ancient World
Credits: 3
Explores the conceptual and philosophical underpinnings of ancient understandings of reality in Western and non-Western cultures in both ancient and modern times. Materials for investigation will be primarily textual, including myths, epics, tragedies, and philosophical discourse in ancient Greece.

Cognitive Science Minor

Associate Professor Justin Fisher, **Director**

The minor in cognitive science is an interdisciplinary minor focused on the study of the mind and the nature of cognition and intelligence, from the perspectives of psychology and philosophy, and potentially (depending upon which courses students elect to take) other disciplines including computer science, neuroscience, linguistics, or mathematics. Topics include the nature of cognition, consciousness, perception, memory, emotion, language acquisition, reasoning, decision-making and behavior, using tools from neuroscience, computer modelling, neural networks, artificial intelligence and formal logic.

A maximum of two courses can double-count towards this minor and all other minors/majors combined.

Requirements for the Minor

The cognitive science minor requires five courses (15 credit hours) from the lists below. Students take one introductory course, one theoretical foundation course, one empirical foundation course, one interdisciplinary bridge course, and one elective course. These courses must be distributed as follows:

Introductory Course (3 Credit Hours)

These lower-level courses provide good preparation for further study in cognitive science. At most, *one* course from this list may count towards the minor.

- CRCP 1310 - Creative Coding I
- PHIL 1301 - Elementary Logic
- PHIL 1306 - Introduction to Philosophy: Minds, Machines, and Persons
- PSYC 1300 - Introduction to Psychology
- PSYC 2332 - Developmental Psychology
- PSYC 2351 - Psychopathology

Theoretical Foundation Course (3 Credit Hours)

These courses introduce students to central theoretical and philosophical issues at the heart of cognitive science and bring together explanations at different levels and/or from different academic disciplines. This theoretical background serves as a springboard for further specialization and helps to provide scaffolding to draw together other courses in this interdisciplinary minor. Students must choose at least one course from this list:

- PHIL 3315 - Philosophy of Mind
- PHIL 3316 - Minds, Brains, and Robotics
- PHIL 3323 - Philosophy of Psychology and Neuroscience
- PHIL 3324 - Consciousness: Theoretical and Empirical Approaches

Empirical Foundation Course (3 Credit Hours)

The following courses introduce students to important empirical approaches in cognitive science, including some central empirical findings and research. Through such courses, students should develop a sophisticated understanding of how empirical research in cognitive science is carried out. Students must choose at least one course from this list:

- PSYC 3301 - Research Methods in Psychology
- PSYC 3310 - Memory and Cognition
- PSYC 4320 - Behavioral Neuroscience

Interdisciplinary Bridge Course (3 Credit Hours)

The following interdisciplinary courses each illustrate how issues in cognitive science can be beneficially approached by work drawing from multiple disciplines within cognitive science. Many of these courses have prerequisites not directly included in this minor, so may be ideal only for students who have relevant preparation or are willing to take extra prerequisites. Students must choose at least one course from this list.

Note: Some courses are listed as both foundations and interdisciplinary, but students may not count a single course as both. All students must take three separate courses to meet these three requirements.

- CRCP 3330 - Artificial Intelligence and Creative Composition
- CS 5320 - Artificial Intelligence
- PHIL 3316 - Minds, Brains, and Robotics
- PHIL 3317 - Philosophy of Perception
- PHIL 3323 - Philosophy of Psychology and Neuroscience
- PHIL 3324 - Consciousness: Theoretical and Empirical Approaches
- PHIL 3381 - Neuroethics
- PSYC 4310 - Cognition and the Brain
- PSYC 4320 - Behavioral Neuroscience
- WL 3375 - Introduction to Psycholinguistics

Elective Course (3 Credit Hours)

These courses each contribute in important ways to cognitive science, but are specialized or advanced in ways that kept them from fitting earlier in the encouraged progression for the minor. Depending on whether students opt to count an introductory course towards the minor, one to two courses will remain. For the remaining course(s), students must choose an elective course from any of the non-introductory lists, including this list of other electives.

- ANTH 3303 - Self, Culture, and Mind: Introduction to Psychological Anthropology
- APSM 4350 - Motor Learning
- CRCP 5326 - History and Theory of Creative Computation
- CS 5324 - Machine Learning in Python
- CS 5342 - Concepts of Language Theory and Their Applications
- PHIL 3301 - Intermediate Logic
- PHIL 3312 - Introduction to Philosophy of Language
- PHIL 3318 - Colors, Sounds, and Other Appearances
- PHIL 3322 - Pleasure and Pain
- PSYC 4325 - Psychology of Emotions
- WL 3308 - Introduction to General Linguistics

Total: 15 Credit Hours

Digital Humanities Minor

Associate Professor Jo Guldi, Director

The digital humanities minor requires a minimum of 15 credit hours (five courses). Nine credit hours must be taken in advanced coursework (3000 level and above). Students take an introductory course, a data science course, one disciplinary methods course in a subject of their choosing, and follow up with a disciplinary intensification course in that same subject. Students complete the minor by taking the capstone course.

Prior to declaring the digital humanities minor, students must pass the introductory course with a C- or better. No more than two courses (6 credit hours) can be double-counted towards this minor and another minor or major.

Requirements for the Minor

The requirements for the minor are distributed as follows:

Introductory Core Course (3 Credit Hours)

One course from the following:

- ENGL 2318 - Literature and Digital Humanities: An Introduction
- HIST 1325 - Doing Digital History

Data Science (3 Credit Hours)

One course from the following:

- DS 1300 - A Practical Introduction to Data Science
- CS 1340 - Introduction to Computing Concepts
- CS 1341 - Principles of Computer Science

Disciplinary Methods (3 Credit Hours)

One course from the following:

- ANTH 4388 - Geospatial Archaeology
- ENGL 3318 - Literature as Data
- ENGL 3348 - History of Print and Digital Culture in America
- HIST 3342 - Text Mining as Historical Method
- HIST 3368 - Digital History with Data Science

Disciplinary Intensification (3 Credit Hours)

One course from the following, in the same subject (prefix) as the Disciplinary Methods course:

- One ANTH course at the 3000 level and above
- One ENGL course at the 3000 level and above
- One HIST course at the 3000 level and above

Capstone (3 Credit Hours)

- HIST 4380 - Digital History Capstone *(Students must complete 12 credit hours in the minor before taking the capstone course.)*

Total: 15 Credit Hours

Ethnic Studies
African/African-American Studies, B.A.

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

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

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation Courses (6 Credit Hours)

- ETST 2301/SOCI 3305 - Introduction to Race and Ethnicity in the United States
- SOCI 3370 - Minority-Dominant Relations

Basic Courses (18 Credit Hours)

Core Courses (9 Credit Hours)

- HIST 2392 - Modern Africa
- HIST 3313 - African Americans in the United States, 1607-1877
- HIST 3314 - African Americans in the United States, 1877 to the Present

Elective Courses (9 Credit Hours)

Three courses chosen from the following, with two outside of history and at least one at the 3000 level and above:

- ANTH 3314 - Peoples of Africa
- ENGL 3362 - African–American Literature
- HIST 2391 - Africa to the 19th Century
- HIST 3304 - African Americans and the Civil Rights Movement
- HIST 3378 - Problems in African History
- MUHI 1340 - Jazz: Tradition and Transformation

Cross-Cultural Course (3 Credit Hours)

One course chosen from Mexican-American studies courses

Supporting Courses (6 Credit Hours)

Two courses chosen from the following:

- ANTH 3353 - Indians of North America
- ANTH 3361 - Language in Culture and Society
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ENGL 1365 - Literature of Minorities

- ENGL 3365 - Jewish–American Literature and Culture
- ETST 2385 - Internship in Ethnic Studies
- PLSC 4337 - Civil Rights
- RELI 3324 - American Judaism

Total for the Major Only: 33 Credit Hours

African/African-American Studies, B.S.

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

The B.S. degree includes both humanities and social science. A total of 39 credit hours are required to complete the major in African and African-American studies. The same pattern of courses is required as for the B.A. degree, with the addition of six credit hours of required methods courses, three of which may substitute for three hours of supporting courses.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation Courses (6 Credit Hours)

- ETST 2301/SOCI 3305 - Introduction to Race and Ethnicity in the United States
- SOCI 3370 - Minority-Dominant Relations

Basic Courses (18 Credit Hours)

Core Courses (9 Credit Hours)

- HIST 2392 - Modern Africa
- HIST 3313 - African Americans in the United States, 1607-1877
- HIST 3314 - African Americans in the United States, 1877 to the Present

Elective Courses (9 Credit Hours)

Three courses chosen from the following, with two outside of history and at least one at the 3000 level and above:

- ANTH 3314 - Peoples of Africa
- ENGL 3362 - African–American Literature
- HIST 2391 - Africa to the 19th Century
- HIST 3304 - African Americans and the Civil Rights Movement
- HIST 3378 - Problems in African History
- MUHI 1340 - Jazz: Tradition and Transformation

Cross-Cultural Course (3 Credit Hours)
One course chosen from Mexican-American studies courses

Supporting Courses (6 Credit Hours)
Two courses chosen from the following:

- ANTH 3353 - Indians of North America
- ANTH 3361 - Language in Culture and Society
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ENGL 1365 - Literature of Minorities
- ENGL 3365 - Jewish–American Literature and Culture
- ETST 2385 - Internship in Ethnic Studies
- PLSC 4337 - Civil Rights
- RELI 3324 - American Judaism

Additional Methods Requirements (6 Credit Hours)

- SOCI 3311 - Social Science Research Methods
- STAT 2331 - Introduction to Statistical Methods

Total for the Major Only: 39 Credit Hours

African/African-American Studies Minor

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

A total of 18 credit hours is required to complete the minor in African/African-American studies.

Requirements for the Minor

Core Courses (9 Credit Hours)

- HIST 2392 - Modern Africa
- HIST 3313 - African Americans in the United States, 1607-1877
- HIST 3314 - African Americans in the United States, 1877 to the Present

Elective Courses (9 Credit Hours)
Three courses chosen from the following, with two outside of history and at least one at the 3000 level and above:

- ANTH 3314 - Peoples of Africa
- ENGL 3362 - African–American Literature
- HIST 2391 - Africa to the 19th Century
- HIST 3304 - African Americans and the Civil Rights Movement
- HIST 3378 - Problems in African History
- MUHI 1340 - Jazz: Tradition and Transformation

Total: 18 Credit Hours

Mexican-American Studies, B.A.

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

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

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation Courses (6 Credit Hours)

- ETST 2301/SOCI 3305 - Introduction to Race and Ethnicity in the United States
- SOCI 3370 - Minority-Dominant Relations

Basic Courses (19 Credit Hours)

Core Courses (10 Credit Hours)

- HIST 3324 - The Mexican Americans, 1848 to the Present
- SOCI 3372 - Contemporary Issues in the American Southwest
- SPAN 2401 - Intermediate Spanish I

Elective Courses (9 Credit Hours)

Three courses chosen from the following:

- ANTH 3312 - Mesoamerican Archaeology
- ARHS 3302 - The Ancient Maya: Art and History *(formerly ARHS 3383 prior to Fall 2020)*
- ARHS 3304 - Aztecs of Mexico: Art and History *(formerly ARHS 3385 prior to Fall 2020)*
- ENGL 3363 - Chicana/Chicano Literature
- HIST 3324 - The Mexican Americans, 1848 to the Present
- HIST 3382 - History of Mexico
- WL 3306 - Chicano Cultural Heritage
- WL 3372 - Relocating Latinos and Their Cultures

Cross-Cultural Course (3 Credit Hours)

One course chosen from African/African-American studies courses

Supporting Courses (6 Credit Hours)

Two courses chosen from the following:

- ANTH 3353 - Indians of North America
- ANTH 3361 - Language in Culture and Society
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ENGL 1365 - Literature of Minorities
- ENGL 3365 - Jewish–American Literature and Culture

- ETST 2385 - Internship in Ethnic Studies
- HIST 3324 - The Mexican Americans, 1848 to the Present
- PLSC 4337 - Civil Rights
- RELI 3324 - American Judaism

Total for the Major Only: 34 Credit Hours

Mexican-American Studies, B.S.

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

The B.S. degree includes both humanities and social science. A total of 40 credit hours are required to complete the major in Mexican-American studies. The same pattern of courses is required as for the B.A. degree, with the addition of six credit hours of required methods courses, three of which may substitute for three hours of supporting courses.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundation Courses (6 Credit Hours)

- ETST 2301/SOCI 3305 - Introduction to Race and Ethnicity in the United States
- SOCI 3370 - Minority-Dominant Relations

Basic Courses (19 Credit Hours)

Core Courses (9 Credit Hours)

- HIST 3324 - The Mexican Americans, 1848 to the Present
- SOCI 3372 - Contemporary Issues in the American Southwest
- SPAN 2401 - Intermediate Spanish I

Elective Courses (9 Credit Hours)

Three courses chosen from the following:

- ANTH 3312 - Mesoamerican Archaeology
- ARHS 3302 - The Ancient Maya: Art and History *(formerly ARHS 3383 prior to Fall 2020)*
- ARHS 3304 - Aztecs of Mexico: Art and History *(formerly ARHS 3385 prior to Fall 2020)*
- ENGL 3363 - Chicana/Chicano Literature
- HIST 3324 - The Mexican Americans, 1848 to the Present
- HIST 3382 - History of Mexico
- WL 3306 - Chicano Cultural Heritage
- WL 3372 - Relocating Latinos and Their Cultures

Cross-Cultural Course (3 Credit Hours)
One course chosen from African/African/American studies courses

Supporting Courses (6 Credit Hours)
Two courses chosen from the following:

- ANTH 3353 - Indians of North America
- ANTH 3361 - Language in Culture and Society
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ENGL 1365 - Literature of Minorities
- ENGL 3365 - Jewish–American Literature and Culture
- ETST 2385 - Internship in Ethnic Studies
- HIST 3324 - The Mexican Americans, 1848 to the Present
- PLSC 4337 - Civil Rights
- RELI 3324 - American Judaism

Additional Methods Requirements (6 Credit Hours)

- SOCI 3311 - Social Science Research Methods
- STAT 2331 - Introduction to Statistical Methods

Total for the Major Only: 40 Credit Hours

Mexican-American Studies Minor

Professor Kenneth Hamilton, **Director**

The ethnic studies program offers an interdisciplinary examination of African-American and Mexican-American experiences through the social sciences and humanities. Students receive instruction in important periods of African, Mexican and American history, probing the roots of traditions beginning in early African and pre-Columbian cultures, as well as examining minorities in contemporary U.S. society. This program provides good preparation for graduate work in the social sciences, the humanities and professional schools, as well as jobs and careers in many fields. Education, law, journalism, urban planning, business, social work and politics are a few of the fields for which ethnic studies provides a strong background.

A total of 19 credit hours is required to complete the minor in Mexican-American studies.

Requirements for the Minor

Core Courses (10 Credit Hours)

- HIST 3324 - The Mexican Americans, 1848 to the Present
- SOCI 3372 - Contemporary Issues in the American Southwest
- SPAN 2401 - Intermediate Spanish I

Elective Courses (9 Credit Hours)
Three courses chosen from the following:

- ANTH 3312 - Mesoamerican Archaeology
- ARHS 3302 - The Ancient Maya: Art and History *(formerly ARHS 3383 prior to Fall 2020)*
- ARHS 3304 - Aztecs of Mexico: Art and History *(formerly ARHS 3385 prior to Fall 2020)*
- ENGL 3363 - Chicana/Chicano Literature
- HIST 3324 - The Mexican Americans, 1848 to the Present
- HIST 3382 - History of Mexico
- WL 3306 - Chicano Cultural Heritage
- WL 3372 - Relocating Latinos and Their Cultures

Total: 19 Credit Hours

Ethnic Studies Courses

ETST 2301 - Introduction to Race and Ethnicity in the United States
Credits: 3
An interdisciplinary seminar designed to introduce students to the analysis of race and ethnicity in the United States.

ETST 2385 - Internship in Ethnic Studies
Credits: 3
Offers experience in varied careers serving ethnic communities. Opportunities include advertising for public service, community organizing, nonprofit economic development, local historical preservation, and more. Departmental consent required.

Health Sciences Minor

Associate Professor John Wise, **Director**

A minor in the health sciences offers students a systematic exposure to biology and chemistry. The minor is particularly suitable for engineering and business majors who are interested in medicine, dentistry or other biomedical careers. This interdisciplinary minor may not be selected by students majoring or minoring in the biological sciences, chemistry, biochemistry, biophysics, health and society, or engineering with a biomedical concentration. Each advanced course must be taken in residence.

Requirements for the Minor

Biological Sciences (14 Credit Hours)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology

Chemistry (12 Credit Hours)

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

Elective Course (3 Credit Hours)

One course from the following:

- SOCI 1300 - Introduction to Sociology
- PSYC 1300 - Introduction to Psychology

Total: 29 Credit Hours

Human Rights, B.A.

www.smu.edu/humanrights
Professor of Practice Rick Halperin, **Director**

The SMU Human Rights Program offers an interdisciplinary program introducing students to the study of universally recognized civil, political, economic, social and cultural human rights. The program offers human rights majors lecture programs, internships, independent research projects, and the opportunity to participate in educational travel programs to study human rights issues worldwide.

The human rights major consists of 30 credit hours of coursework related to human rights and at least 11 credit hours in any one world language. Students may also demonstrate proficiency in a world language through testing or other approved means. Given the interdisciplinary nature of the study of human rights, students are required to take a second major or a minor in a related field. No more than 6 credit hours taken for the human rights major can be counted towards any other major or minor. Students must also select three elective courses from the approved elective list below (or they may substitute other courses as approved by the director).

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (12 Credit Hours)

- HRTS 3301/HIST 3301 - Human Rights: America's Dilemma
- HRTS 3310/WGST 3310 - Gender and Human Rights
- HRTS 4343 - Ethics and Human Rights

- HRTS 4385 - Internship in Human Rights
  or
- HRTS 4399 - Undergraduate Research
  Note: Upon consultation with the human rights program director, students may substitute HRTS 4385 with one of the following internship courses offered by the department of their second major or minor, if the internship contains a significant human rights component: ANTH 4381, ETST 2385, FREN 4385, HIST 4385, INTL 4385, PLSC 4385, RELI 4385, SOCI 4387, SPAN 4385, or WL 4385.

Human Rights Tracks (9 Credit Hours)

Three courses from either track, from at least two departments and with at least six credit hours at the 3000 level and above.

Gender and Human Rights Track

- ANTH 1321 - Anthropology: A Four-Field Approach
- ANTH 2301 - Introductory Cultural Anthropology
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3328/WGST 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348/HRTS 3348 - Health as a Human Right
- ENGL 3363 - Chicana/Chicano Literature
- HIST 3317/HRTS 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
- HIST 3327 - Women in American History From 1865
- HIST 3398 - Women in Chinese History
- JOUR 4360 - Race, Class, and Gender in Media
- PLSC 4339 - Criminal Procedure: 5th and 6th Amendment Rights

- PLSC 4344/HRTS 4344 - Gender in World Politics
- SOCI 3371 - Sociology of Gender
- SOCI 4373 - Class, Race, and Gender Inequalities
- WL 3327 - Les Misérables
- WL 3374 - Sex, Gender, and Identity in Germany from the Late 19th Century to the Present
- WL 3383/HRTS 3383 - Gender and Human Rights in Latin American Women Writers

Public Policy and Human Rights Track

- ANTH 3333 - The Immigrant Experience
- ANTH 3348/HRTS 3348 - Health as a Human Right
- ANTH 3351 - Forensic Anthropology: Lessons Taught by Bones
- ANTH 3353 - Indians of North America
- ANTH 3354 - Latin America: Peoples, Places, and Power
- ENGL 3383 - Literary Executions: Imagination and Capital Punishment
- HIST 2391 - Africa to the 19th Century
- HIST 2392 - Modern Africa
- HIST 2395 - Modern East Asia
- HIST 3304 - African Americans and the Civil Rights Movement
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3313 - African Americans in the United States, 1607-1877
- HIST 3314 - African Americans in the United States, 1877 to the Present
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- PHIL 3371 - Social and Political Philosophy
- PHIL 3374 - Philosophy of Law
- PHIL 3377 - Animal Rights
- PHIL 3380 - Ethics: Morality, Self-Interest, and Justice
- PLSC 1380 - Introduction to International Relations
- PLSC 3320 - Principles of Public Policy
- PLSC 3345 - Governments and Politics of the Middle East
- PLSC 3346 - Japanese Politics and Society
- PLSC 3347 - Governments and Politics of Africa
- PLSC 3348 - Governments and Politics of Latin America
- PLSC 3352 - Chinese Politics
- PLSC 3358 - Government and Politics of Russia
- PLSC 3383 - The American Foreign Policy Process
- PLSC 4337 - Civil Rights
- PLSC 4339 - Criminal Procedure: 5th and 6th Amendment Rights
- PLSC 4390 - NGOs in Global Politics
- SOCI 3305/ETST 2301 - Introduction to Race and Ethnicity in the United States
- SOCI 3360 - Law and Society
- SOCI 3363 - Crime and Delinquency
- SOCI 3370 - Minority-Dominant Relations
- SOCI 4335 - Social Movements and Collective Behavior

Elective Courses (9 Credit Hours)

Three courses from at least two departments, if not taken for the Gender and Human Rights Track or the Public Policy and Human Rights Track above, with at least 3 credit hours at the 3000 level and above.

- AMAE 4326 - Cultural Policy
- Any **ANTH** (or colisted **HRTS** course), **ETST**, or **WGST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track above.
- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society

- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4305 - Applied Anthropology
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ENGL 1365 - Literature of Minorities
- ENGL 3362 - African–American Literature
- ENGL 3367 - Ethical Implications of Children's Literature
- ENGL 3377 - Literature and the Construction of Homosexuality
- ENGL 3383 - Literary Executions: Imagination and Capital Punishment
- ENGL 3385/HRTS 3385 - Literature of the Holocaust
- FREN 4362 - Literature on Human Rights: Thinking a Better World *(formerly FREN 5325 prior to Fall 2019)*
- FREN 4376 - Introduction to Francophone Cultures
- Any **HIST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track above.
- HIST 3363 - The Holocaust
- HIST 3377 - History of South Africa
- HIST 3398 - Women in Chinese History
- HRTS 3316 - Ethnoviolence
- HRTS 3320/ARHS 3310 - War, Looting, and Collecting in the Ancient World
- HRTS 3340/WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- HRTS 3341/WL 3341 - The Failure of Humanity in Rwanda
- HRTS 3348 - Health as a Human Right
- HRTS 3383/WL 3383 - Gender and Human Rights in Latin American Women Writers
- HRTS 4338 - Great Debates of the American Civil Rights Movement & Pilgrimage
- HRTS 4344 - Gender in World Politics
- HRTS 4390 - Special Topics in Human Rights Abroad (for group tour credit)
- HRTS 4391 - Special Topics in Human Rights Abroad (for group tour credit)
- HRTS 4392 - Special Topics in Human Rights
- JOUR 4350 - Human Rights and the Journalist
- JOUR 4360 - Race, Class, and Gender in Media
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- MNO 4371 - Leadership and Culture
- Any **PHIL** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track above.
- PHIL 3373 - Philosophy of Criminal Law
- Any **PLSC** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track above.
- PLSC 3382 - International Organizations
- PSYC 3375 - Human Rights From a Psychological Perspective
- RELI 3321 - Religion and the Holocaust
- RELI 3390 - A Persistent Prejudice: Anti-Semitism in Western Civilization
- Any **SOCI** or colisted **ETST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track above.
- SOCI 3321 - Nonprofit Organizations: Conceptual Primer
- SOCI 4353 - Nonprofit Management and Community Leadership
- SPAN 3313 - Cultural Dialogues: Latin America
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 5364 - Human Rights Issues in Contemporary Spanish Literature
- WGST 3380 - Human Sexuality
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France

- WL 3374 - Sex, Gender, and Identity in Germany from the Late 19th Century to the Present

World Language (11 Credit Hours)

- A single world language. Students may also demonstrate proficiency in a world language through testing or other approved means.

Total for the Major Only: 41 Credit Hours

Human Rights Minor

www.smu.edu/humanrights
Professor of Practice Rick Halperin, **Director**

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

The minor also requires a commitment of students' effort, time and talent in defense of or in advocacy for human rights. Students are required to complete a 20-hour service-learning placement with a human rights community-based agency (as a component of HRTS 3301/HIST 3301).

Students may receive three hours of elective credit by participating in an SMU Human Rights Program sponsored trip to a location where human rights violations have occurred or are occurring and completing a research paper on a human rights topic related to the site (HRTS 4390, HRTS 4391).

Further, students may, upon consultation with the human rights program director, substitute HRTS 4385 with one of the following internship courses offered by the department of their second major or minor, if the internship contains a significant human rights component: ANTH 4381, ETST 2385, FREN 4385, HIST 4385, INTL 4385, PLSC 4385, RELI 4385, SOCI 4387, SPAN 4385, or WL 4385; or they may conduct an approved research project (HRTS 4399).

Requirements for the Minor

Core Course (3 Credit Hours)

- HRTS 3301/HIST 3301 - Human Rights: Americas Dilemma

Elective Courses (15 Credit Hours)

Five courses from the following, with no more than two courses from any one department. Nine credit hours must be at the 3000 level and above.

- AMAE 4326 - Cultural Policy
- Any **ANTH** (or colisted **HRTS** course), **ETST**, or **WGST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track.
- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4305 - Applied Anthropology
- ENGL 1365 - Literature of Minorities
- ENGL 3362 - African–American Literature
- ENGL 3367 - Ethical Implications of Children's Literature
- ENGL 3377 - Literature and the Construction of Homosexuality
- ENGL 3383 - Literary Executions: Imagination and Capital Punishment
- ENGL 3385/HRTS 3385 - Literature of the Holocaust

- FREN 4362 - Literature on Human Rights: Thinking a Better World *(formerly FREN 5325 prior to Fall 2019)*
- FREN 4376 - Introduction to Francophone Cultures
- Any **HIST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track.
- HIST 3363 - The Holocaust
- HIST 3377 - History of South Africa
- HIST 3398 - Women in Chinese History
- HRTS 3316 - Ethnoviolence
- HRTS 3320/ARHS 3310 - War, Looting, and Collecting in the Ancient World
- HRTS 3340/WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- HRTS 3341/WL 3341 - The Failure of Humanity in Rwanda
- HRTS 3348 - Health as a Human Right
- HRTS 3383/HRTS 3383/WL 3383 - Women's Rights and Human Rights: Latin American Women Writers Gender and Human Rights in Latin American Women Writers
- HRTS 4338 - Great Debates of the American Civil Rights Movement & Pilgrimage
- HRTS 4344 - Gender in World Politics

- HRTS 4385 - Internship in Human Rights
  or
- HRTS 4399 - Undergraduate Research

- HRTS 4390 - Special Topics in Human Rights Abroad (for group tour credit)
- HRTS 4391 - Special Topics in Human Rights Abroad (for group tour credit)
- HRTS 4392 - Special Topics in Human Rights
- JOUR 4350 - Human Rights and the Journalist
- JOUR 4360 - Race, Class, and Gender in Media
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- MNO 4371 - Leadership and Culture
- Any **PHIL** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track.
- PHIL 3373 - Philosophy of Criminal Law
- Any **PLSC** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track.
- PLSC 3382 - International Organizations
- PSYC 3375 - Human Rights From a Psychological Perspective
- RELI 3321 - Religion and the Holocaust
- RELI 3390 - A Persistent Prejudice: Anti-Semitism in Western Civilization
- Any **SOCI** or colisted **ETST** course from the Gender and Human Rights Track or the Public Policy and Human Rights Track.
- SOCI 3321 - Nonprofit Organizations: Conceptual Primer
- SOCI 4353 - Nonprofit Management and Community Leadership
- SPAN 3313 - Cultural Dialogues: Latin America
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 5364 - Human Rights Issues in Contemporary Spanish Literature
- WGST 3380 - Human Sexuality
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3327 - Les Misérables
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France
- WL 3374 - Sex, Gender, and Identity in Germany from the Late 19th Century to the Present

Total: 18 Credit Hours

Human Rights Courses

HRTS 1101 - Foundations of Community, Inclusion, and Diversity
Credits: 1
Explores many components of diversity and inclusion through self-identity development and construction, SMU's history regarding diversity, and ways students can build inclusive communities on campus and beyond.

HRTS 2301 - The Struggle for Human Rights in South Africa
Credits: 3
Studies the history of the struggle for human rights in South Africa from the colonial era to the present. Examines themes such as gender, education, segregation, and labor.

HRTS 2325 - Human Rights in Modern South Asia
Credits: 3
Examines some of the most pressing human rights issues in 20th and 21st century South Asia, including questions of gender, environmental justice, and caste.

HRTS 3301 - Human Rights: America's Dilemma
Credits: 3
Examines certain violations of human rights within their historical context and explores America's commission and prevention of human rights violations.

HRTS 3309 - Lesbian and Gay Literature and Film: Minority Discourse and Social Power
Credits: 3
The exploration, through literature and film, of the struggles by gay men and lesbians to create social identities and achieve human rights. Study of key cultures and pivotal historical periods in the West from ancient Greece to contemporary America.

HRTS 3310 - Gender and Human Rights
Credits: 3
Introduction to global women's human rights and other intersections of human rights and gender, such as abuse of children's rights, gender-based violence, health and reproductive rights, and evolving concepts of sexual rights.

HRTS 3316 - Ethnoviolence
Credits: 3
Introduces topics and approaches to the study of ethnoviolence, including specific disciplinary approaches such as sociology, communication studies, postcolonial studies, film studies, political science, and human rights. Students meet twice a week, once with the entire class, and once in groups of 20 to take a more sustained disciplinary approach to the question depending on the background of the individual instructor. Some lectures are delivered by guest speakers.

HRTS 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
Credits: 3
Examines same-sex attractions and same-sex sexuality, which are present in every society, whether in the open or secret.

HRTS 3320 - War, Looting, and Collecting Art in/of the Ancient World
Credits: 3
Examines the ways war, looting, and collecting affect ancient art. Students analyze case studies of ancient and modern warfare, focusing on resultant destruction, relocation, and repurposing of artworks.

HRTS 3340 - French Muslim Citizens and the Algerian War: The Harkis
Credits: 3
Focuses on the Harkis, the Muslim Algerian loyalists who served as auxiliaries in the French Army during the

Algerian War from 1954 to 1962. Examines the Harkis as neither fully French nor Algerian through historical readings, visual media (films and documentaries), and popular culture. Meet once a week for 3 hours.

HRTS 3341 - The Failure of Humanity in Rwanda
Credits: 3
An introduction to the 1994 Rwanda genocide that seeks to understand not only its origins but also its sociological, ethical, and human rights implications.

HRTS 3348 - Health as a Human Right
Credits: 3
This course examines the concept of human rights critically, with an eye for cross-cultural variation and a particular focus on rights that are health-related.

HRTS 3362 - Postcolonial France
Credits: 3
A multidisciplinary course providing an introduction to, or better understanding of, some of the most passionate debates on assimilation, difference, and multiculturalism that have emerged in France in recent years.

HRTS 3383 - Gender and Human Rights in Latin American Women Writers
Credits: 3
Explores constructions of sexuality, gender, and identity in key historical moments in literature by Latin American women, with a focus on the intersecting themes of gender rights and human rights. This course is the equivalent of WL 3383 and SPAN 5375. Students may only take HRTS 3383/WL 3383 or SPAN 5375.

HRTS 3385 - Literature of the Holocaust
Credits: 3
Explores the literature of the Holocaust and issues regarding the possibility of aesthetic portrayal of this horrific event. Considers Holocaust literature and post-Holocaust literature. Prerequisite: WRTR 1313, WRTR 2304, or WRTR 2306.

HRTS 4193 - Independent Study
Credits: 1
For advanced undergraduates. Permission of instructor and program director required.

HRTS 4309 - Human Rights, Indigenous Peoples, and Nation States
Credits: 3
An examination of human rights issues among contemporary indigenous peoples, especially the impact on their cultures and societies from governmental and nongovernmental organizations, large-scale development programs, and global tourism.

HRTS 4338 - Great Debates of the American Civil Rights Movement & Pilgrimage
Credits: 3
The study, understanding, and research of the American Civil Rights movement with particular emphasis upon the era of 1942-1970. Includes the Civil Rights Pilgrimage over Spring Break.

HRTS 4343 - Ethics and Human Rights
Credits: 3
Explores how global ethical perspectives intersect with the theory and practice of human rights, emphasizing healthy and just relationships with self, community, other, place, and career.

HRTS 4344 - Gender in World Politics
Credits: 3
Surveys classic and contemporary scholarship about women and gender in world politics, focusing on theoretical and empirical explorations of political participation, representation, activism, democracy, war, and human rights.

HRTS 4385 - Internship in Human Rights
Credits: 3
This three-credit course allows students to expand their practical expertise, leadership capability, and technical skill by serving as human rights advocates, activists, and/or allies across a range of professional fields through a human rights focused internship of 135+ hours.

HRTS 4390 - Special Topics in Human Rights Abroad
Credits: 3
Students travel abroad to designated countries to research and write about human rights situations and violations through interaction with educational, governmental, and nongovernmental representatives; human rights activists; and survivors of human rights violations.

HRTS 4391 - Special Topics in Human Rights Abroad
Credits: 3
Students travel abroad to designated countries to research and write about human rights situations and violations through interaction with educational, governmental, and nongovernmental representatives; human rights activists; and survivors of human rights violations.

HRTS 4392 - Special Topics in Human Rights
Credits: 3
Students research and write about a specific human rights issue under the supervision of the director and interact with human rights agencies in the greater Dallas area (or beyond).

HRTS 4393 - Independent Study
Credits: 3
For advanced undergraduates. Permission of instructor and program director required.

HRTS 4399 - Undergraduate Research
Credits: 3
Credit for a department-approved research experience, such as the on-campus Undergraduate Research Assistant (URA) program, an off-campus Research Experience for Undergraduates (REU), or certain research-based study-abroad programs. Prerequisite: Departmental approval required.

Individualized Studies in Liberal Arts, B.A.

Associate Professor Thomas W. Carr, **Director**

General Information

The major in individualized studies in the liberal arts provides students the opportunity to design a thematically coherent interdisciplinary program of study that brings fields of inquiry together in unique combinations not currently offered as a program in the SMU curriculum. Interested and academically qualified students are invited to explore this possibility with the program's director (Dedman College Associate Dean of Academic Affairs for Curriculum). If the student's plan of study appears to have merit, the director will suggest three faculty members to serve on the student's Faculty Supervisory Committee, who will provide additional guidance in designing the program.

Students with at least a 3.500 GPA in the first 24 credit hours taken through enrollment at SMU are eligible to pursue the program, which consists of individually designed majors in the liberal arts of at least 36 credit hours, with a minimum of 24 credit hours of advanced courses (3000 level or above). The program must satisfy all University-wide requirements and all other University and Dedman College graduation requirements. Students are responsible for fulfilling all prerequisites for courses taken. The degree will be identified as a B.A. with a major in individualized studies in the liberal arts. A note on the transcript will denote the concentration. Students intending to seek admission to graduate schools are encouraged to include at least 30 credit hours of a coherent set of courses in an identifiable disciplinary field.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree.

Administrative Procedures

The Dedman College Undergraduate Council shall have the final authority to approve all individualized studies programs. The Dedman College associate dean for academic affairs will act as the director of the individualized studies program. Prior to declaring the major, a number of steps must be completed:

1. The student should contact the Dedman College Office of Records and Academic Services to confirm that the student is eligible to declare an individualized studies program.
2. The student, with the assistance of the individualized studies program director, must form a Faculty Supervisory Committee with a minimum of three members. The committee will provide advice and guidance to the student. At least two members, including the chair of the committee, shall be resident members of the Dedman College faculty.
3. Contact the individualized studies program director to obtain instructions for preparing a plan of study. The student will submit a plan of study to the director and to each Faculty Supervisory Committee member. If the committee and the director approve the plan of study, the plan is then submitted for approval by the Dedman College Undergraduate Council.
4. The plan is transmitted to the Dedman College Office of the Associate Dean for Academic Affairs and to the Dedman College Office of Records and Academic Services.

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

Note that a Summary Report must be prepared by the student in the final semester of study before graduation.

Distinction

Students completing an individualized studies major can do so with distinction, which is a prearranged, two-term sequence of advanced coursework culminating in an advanced research project. The research is planned during the junior year and accomplished during the senior year. Many of these projects may qualify as a project through the

Dedman College Interdisciplinary Institute and/or an Engaged Learning project, and it is the student's responsibility to consider all possibilities and deadlines.

To undertake distinction, a student must have completed 60 credit hours of coursework, have a GPA of 3.500 in the major courses, and must have completed a minimum of 15 advanced hours (3000 level or above) in the individualized studies major. The research project for distinction in individualized studies must be substantively different from a research project for possible distinction in a second major field. Graduation with distinction is designated on the diploma for a student who successfully completes the criteria outlined.

To earn distinction, a student must:

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

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

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

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

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

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

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

Individualized Studies in the Liberal Arts Courses

DCAR 4001 - Dedman College Advanced Research
Credits: 0
Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

DCAR 4301 - Dedman College Advanced Research
Credits: 3
Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

DCAR 4302 - Dedman College Advanced Research
Credits: 3
Independent research for students pursuing distinction in interdisciplinary or individualized majors or engaged in advanced independent research in relation to other Dedman College programs. Enrollment in this course requires preapproval of the senior associate dean of academic affairs.

International Studies, B.A.

www.smu.edu/internationalstudies
Professor Luigi Manzetti, **Director**

General Information

To succeed in an international career, students need expertise in the politics, economics, history, language and cultures of societies other than their own. The curricula for the International and Area Studies Program are designed to provide students with a foundation for this expertise, requiring coursework in the social sciences, business, language and humanities. A student majoring in international studies chooses a region in which to concentrate: Africa/Middle East, Asia, Europe, or Latin America.

As an alternative to the international studies major or minor, a student may choose the area studies minor. These minors include Africa/Middle East studies, Asian studies, European studies, and Latin American and Iberian studies.

International Studies Major Rules for SMU Abroad Credit

To maximize the educational experience in these degree programs, all international studies majors are strongly encouraged to spend at least one term or summer studying abroad. The University offers numerous study abroad opportunities around the world; most of these courses may be applied to the international studies major. The following policies apply to the International Studies Program:

For the International Studies Major

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

Departmental Distinction

The International Studies program offers selected undergraduate majors an opportunity to undertake a special program of study and research as a candidate for award of the B.A. degree with departmental distinction. The criteria for departmental distinction are as follows:

- A minimum 3.000 grade point average overall
- A minimum 3.500 grade point average in the major
- Preparation for a department distinction thesis under the supervision of a faculty adviser. The grade received for INTL 4307 must be A- or higher
- A minimum 3.500 grade point average in a least two advanced courses related to the topic of the thesis; one of these may be a course taken outside the requirements for the major
- Passing "with distinction" an oral examination of at least one hour, conducted by a faculty committee

A student wishing to undertake work toward departmental distinction should follow this process:

- Apply for admission to candidacy no later than December 1 (for May or August graduates) or May 1 (for December graduates).
- Arrange for a distinction thesis adviser
- Register for INTL 4307 during the last semester of senior year, having met all criteria for distinction (see above).

Potential candidates are strongly encouraged to begin developing a thesis several months ahead of registration for INTL 4307. Students will meet with their distinction thesis adviser on a regular basis during the term (i.e. several times a month), and must make sure that sufficient copies of the completed thesis are submitted to members of the thesis committee at least ten days prior to the oral examination.

The defense or oral examination will last at least one hour. Each member of the committee will have an opportunity to examine the candidate on topics relevant to the thesis and related courses taken by the students. All oral examinations must be completed before the first day of the semester's final examination period.

The distinction thesis adviser will assign a regular letter grade for INTL 4307, reflecting the adviser's judgment of the quality of work and research performed by the candidate. If the advisor anticipates that the grade may fall below *A-* before the date of the oral examination, the committee will be so informed. The committee may then, by unanimous vote only, decide to conduct the examination.

By unanimous agreement of its members, the distinction committee will report in writing whether the student has (or has not) passed the examination "with distinction." If the examination committee recommends against distinction, it shall report the reasons in writing to the program director of designated representative. No decision to deny distinction will be reported in the student's permanent file or transcript; but a grade for INTL 4307 will be reported to the University Registrar.

Directed Readings, Internships and Distinction Courses

INTL 4302 - Directed Studies in International Studies
INTL 4307 - Departmental Distinction Thesis
INTL 4385 - Internship in International Studies

Major Information

The international studies major provides exposure to global issues through the Core Courses. It also provides students with the opportunity to design an interdisciplinary program of study that facilitates an understanding of the human experience in a global perspective, while at the same time allowing them to develop in-depth knowledge and expertise in a specific geographical area.

The major requires 33 credit hours of coursework (in addition to prerequisites for certain courses and the language requirement). Note: Courses taken in the Core Courses do not double count in the regional concentration.

The senior seminar, INTL 4388, which must be taken on campus by all majors in their senior year, is designed as a capstone course where students integrate and apply what they have learned. The seminar is offered in the fall semester only.

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

Information about independent readings, study abroad opportunities and internship requirements are available on the website for international studies.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (9 Credit Hours)

- INTL 1301 - Introduction to International Studies

- PLSC 3389 - International Political Economy

One from the following:

- ANTH 2301 - Introductory Cultural Anthropology
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations

Global Perspective (6 Credit Hours)

Two from the following:

These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma
- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets

- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Regional Concentration (15 Credit Hours)

Five courses, with at least four that must be at the 3000 level and above.

- Three courses from **Social Sciences** and two courses from **Humanities and Arts** are recommended. Students who wish to deviate from this recommendation should consult with the program adviser for international studies.
- No more than two courses may be double counted towards this major and any other minor or major.

Social Sciences

African/Middle Eastern Studies

- ANTH 3314 - Peoples of Africa
- ANTH 3359 - Peoples and Cultures of the Middle East
- HIST 2379 - A History of Islamic Empires
- HIST 2391 - Africa to the 19th Century
- HIST 2392 - Modern Africa
- HIST 3350 - A History of Ancient Egypt
- HIST 3351 - History of Ancient Near East
- HIST 3378 - Problems in African History
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- PLSC 3345 - Governments and Politics of the Middle East
- PLSC 3347 - Governments and Politics of Africa
- PLSC 4345 - Islam and Politics

Asian Studies

- ANTH 3323 - East Asia in Motion
- ANTH 4390 - Current Issues in Anthropology
- BA 3300 - Special Topics: International Business Administration
- HIST 2325 - Human Rights in Modern South Asia
- HIST 2390 - Civilization of India
- HIST 2394 - China Before 1850
- HIST 2395 - Modern East Asia
- HIST 3393 - China in Revolution
- HIST 3398 - Women in Chinese History
- PLSC 3346 - Japanese Politics and Society
- PLSC 3352 - Chinese Politics
- PLSC 4340 - Special Studies in Comparative Governments and Politics
- PLSC 4353 - Political Economy of East Asia
- PLSC 4386 - International Relations of East Asia

European Studies

- ANTH 3355 - Society and Culture in Contemporary Europe
- BA 3300 - Special Topics: International Business Administration

- BA 4315 - European Common Market
- HIST 2323 - Russian Culture
- HIST 2366 - Europe in the Modern World, 1760 to the Present
- HIST 3328 - History of Modern Germany
- HIST 3329 - Women in Early Modern Europe
- HIST 3330 - Women in Modern European History
- HIST 3334 - France Since 1789
- HIST 3335 - One King, One Law: France 1500-1789
- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 3343 - 20th-Century Europe
- HIST 3352 - The Age of the Crusades
- HIST 3353 - The History of Ancient Greece
- HIST 3358 - The Renaissance
- HIST 3359 - Europe in the Age of the Reformation, 1520-1598
- HIST 3363 - The Holocaust
- HIST 3365/HIST 3366 - Problems in European History
- HIST 3374 - Diplomacy in Europe: Napoleon to the European Union (SMU-in-Oxford)
- HIST 3376 - Intellectual History of Europe
- HIST 3381 - The First World War and Its Impact
- HIST 4314 - Jews in Europe: Middle Ages to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- HIST 4373 - History of Modern France
- HIST 4388 - Georgian and Victorian England (SMU-in-Oxford)
- MNO 3300 - Special Topics in International Management I
- PLSC 3340 - Western European Politics
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 4340 - Special Studies in Comparative Governments and Politics
- PLSC 4380 - Special Studies in International Relations
- PLSC 4384 - American-Russian Relationship

Latin American and Iberian Studies

- ANTH 3313 - South American Indians of the Past and Present
- ANTH 3354 - Latin America: Peoples, Places, and Power
- HIST 2384 - Latin America: The Colonial Period
- HIST 2385 - Latin America in the Modern Era
- HIST 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
- HIST 3324 - The Mexican Americans, 1848 to the Present
- HIST 3382 - History of Mexico
- PLSC 3348 - Governments and Politics of Latin America
- PLSC 3349 - Politics of Major Latin American Countries
- PLSC 4340 - Special Studies in Comparative Governments and Politics
- PLSC 4356 - Latin American Political Economy
- SOCI 3370 - Minority-Dominant Relations
- SOCI 3372 - Contemporary Issues in the American Southwest

Humanities and Arts

African/Middle Eastern Studies

- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda

- WL 3349 - The African Diaspora: Literature and History of Black Liberation
- WL 3355 - Tradition, Community, and Identity in African Cinema

Asian Studies

- ARHS 3394 - Art and Architecture of Japan
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- RELI 1303 - Introduction to Asian Religions
- RELI 3306 - Hinduism
- RELI 3307 - Buddhism
- RELI 3365 - Understanding Self: East and West
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- RELI 3382 - Mysticism
- RELI 3384 - Hinduism and Colonial Encounters
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China

European Studies

- ARHS 1303 - Introduction to Western Art I
- ARHS 1304 - Introduction to Western Art II
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3320 - Medieval Art and Architecture
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3329 - Paris Art and Architecture I
- ARHS 3330 - Renaissance and Baroque Architecture
- ARHS 3331 - Art and Culture of the Italian Renaissance
- ARHS 3332 - 16th-Century Italian Art
- ARHS 3333 - Special Topics in Italian Art and Architecture
- ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
- ARHS 3344 - Paintings at the Prado
- ARHS 3346 - Paris Art and Architecture II
- ARHS 3350 - The Making of Modern Life: Art and Design in the 19th Century
- ARHS 3354 - History and Theory of Prints
- ARHS 3387 - Picturing Children and the Family in Art: 1850 to the Present
- ENGL 3341 - British Literary History II: Wordsworth Through Yeats
- ENGL 3344 - Victorian Gender and Sexuality
- FREN 3365 - Contemporary French Cinema *(formerly FREN 4365 prior to Fall 2019)*
- FREN 3384 - Introduction to French Culture and Literature I *(formerly FREN 4379 prior to Fall 2019)*
- FREN 3385 - Introduction to French Culture and Literature II *(formerly FREN 4380 prior to Fall 2019)*
- FREN 3386 - Introduction to French Culture and Literature III *(formerly FREN 4381 prior to Fall 2019)*
- FREN 4373/FREN 4374 - French Civilization
- FREN 4375 - Introduction to French History and Culture
- FREN 4376 - Introduction to Francophone Cultures
- PHIL 3333 - Topics in Philosophy
- PHIL 3352 - History of Western Philosophy (Modern)
- PHIL 3353 - 19th-Century Philosophy
- WL 3303/SPAN 3373 - Topics in Spanish Civilization
- WL 3323/HIST 2323 - Russian Culture
- WL 3331 - Survey: Russian Literature in Translation
- WL 3369 - Perspectives on Modern Germany
- WL 3390 - Italian Cinema
- WL 3391 - Italian Literature in Translation: The Italian Novel

Latin American and Iberian Studies

- ANTH 3312 - Mesoamerican Archaeology
- ARHS 1308 - Epic of Latin America
- ARHS 3301 - Art and Experience in Inka Peru
- ARHS 3302 - The Ancient Maya: Art and History
- ARHS 3304 - Aztecs of Mexico: Art and History
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3336 - Power and Spectacle: The Arts of the Early Modern Hispanic World
- ARHS 3338 - Sacred and Profane: Spanish Art and Architecture
- ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
- ARHS 3340 - Visual Culture in Colonial Mexico
- ARHS 3344 - Paintings at the Prado
- ARHS 3360 - Modern Painters in Spain
- ARHS 3363 - Topics in Brazilian Art and Architecture
- ARHS 3376 - Latin American Art
- ARHS 3377 - Art and Architecture of Hispanic New Mexico
- ENGL 3363 - Chicana/Chicano Literature
- RELI 3353 - Identity and the Sacred in the Southwest
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 4391 - Commercial Spanish for International Trade
- SPAN 4395 - Introduction to Hispanic Literature
- SPAN 5310 - Spanish Literature Before 1700
- SPAN 5311 - Spanish Literature Since 1700
- SPAN 5315 - Spanish-American Literature to 1888
- SPAN 5316 - Spanish-American Literature Since 1888
- SPAN 5321 - The Renaissance and Golden Age: Prose Fiction
- SPAN 5323 - 19th-Century Prose Fiction
- SPAN 5325 - 20th-Century Peninsular Prose Fiction
- SPAN 5334 - The Novel, Post-Civil War
- SPAN 5335 - Genre Studies (Spain)
- SPAN 5336 - Spanish-American Novel
- SPAN 5337 - Spanish-American Essay
- SPAN 5338 - Spanish–American Short Story
- SPAN 5339 - Spanish-American Poetry
- SPAN 5361 - Don Quixote: The Idea, the Character, the Book
- SPAN 5365 - Contemporary Spanish Women Writers
- SPAN 5370 - Rewriting Discovery and Exploration in the Spanish Borderlands
- SPAN 5375 - Contemporary Fiction by Latin American Women Writers
- WL 3303/SPAN 3373 - Topics in Spanish Civilization
- WL 3306 - Chicano Cultural Heritage

Capstone (3 Credit Hours)

- INTL 4388 - Senior Seminar: International Government and Politics

Total for the Major Only: 33 Credit Hours

International Studies Minor

www.smu.edu/internationalstudies
Professor Luigi Manzetti, **Director**

General Information

To succeed in an international career, students need expertise in the politics, economics, history, language and cultures of societies other than their own. The curricula for the International and Area Studies Program are designed to provide students with a foundation for this expertise, requiring coursework in the social sciences, business, language and humanities. A student majoring in international studies chooses a region in which to concentrate: Africa/Middle East, Asia, Europe, or Latin America.

As an alternative to the international studies minor or major, a student may choose the area studies minor. These minors include Africa/Middle East studies, Asian studies, European studies and Latin American and Iberian studies.

International Studies Minor Rules for SMU Abroad Credit

To maximize the educational experience in these degree programs, all international studies minors are strongly encouraged to spend at least one term or summer studying abroad. The University offers numerous study abroad opportunities around the world; most of these courses may be applied to the international studies minor. The following policies apply to the International Studies Program:

For the International Studies Minor

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

Minor Information

The minor in international studies requires 15 credit hours of coursework, nine hours of which must be advanced courses at the 3000 level and above. The first nine credit hours (three courses) must be chosen from the Core Courses. The next six credit hours (two courses) must be chosen from the Global Perspective section.

A cocurricular requirement is one year of college-level study or equivalent of a world language. **Note:** Latin does not count as a second language. Courses taken in language study do not count toward the 15 credit hours of required coursework.

Requirements for the Minor

Core Courses (9 Credit Hours)

- INTL 1301 - Introduction to International Studies
- PLSC 3389 - International Political Economy

One from the following:

- ANTH 2301 - Introductory Cultural Anthropology
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations

Global Perspective (6 Credit Hours)

Two from the following:
These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience

- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World (Note: This course will not count towards one of the three advanced courses [3000 level and above] required for the minor.)
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma
- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing (study abroad programs)
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations (also study abroad)
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions (Note: This course will not count towards one of the three advanced courses [3000 level and above] required for the minor.)
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Total: 15 Credit Hours

Area Studies Minor

www.smu.edu/internationalstudies
Professor Luigi Manzetti, **Director**

General Information

To succeed in an international career, students need expertise in the politics, economics, history, language and cultures of societies other than their own. The curricula for the Area Studies Program are designed to provide students with a foundation for this expertise, requiring coursework in the social sciences, business, language and humanities.

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

Area Studies Minor Rules for SMU Abroad Credit

To maximize the educational experience in these degree programs, all area studies minors are strongly encouraged to spend at least one term or summer studying abroad. The University offers numerous study abroad opportunities around the world; most of these courses may be applied to the area studies minor. The following policies apply to the Area Studies Program:

For an Area Studies Minor

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

Requirements for the Minor

A minor in one of the four geographic areas of study requires 15 credit hours of coursework. The first six hours (two courses) are chosen from the Core Courses or the Global Perspective. The next nine hours (three courses) are chosen from a regional concentration: 1) the African and Middle Eastern studies curriculum, 2) the Asian studies curriculum, 3) the European studies curriculum, or 4) the Latin American and Iberian studies curriculum. At least one course is to be selected from the social sciences group and at least one course is to be selected from the humanities and arts group for the selected curriculum. At least nine hours must be at the 3000 level and above.

If a student is an international studies major, only one course from the area studies curriculum may be double counted toward the area studies minor.

The language requirement for the minor may be met through examination, the transfer of language study credit from another university or by taking courses on campus.

- Africa/Middle East Studies Minor
- Asian Studies Minor
- European Studies Minor
- Latin American and Iberian Studies Minor

Africa/Middle East Studies Minor

Professor Luigi Manzetti, **Director**

Students who minor in Africa/Middle East studies should refer to the Area Studies Minor Requirements. The minor requires 15 credit hours of coursework. The first six credit hours (two courses) must be chosen from the Core Courses or the Global Perspective. The next nine credit hours (three courses) must be chosen from the

Africa/Middle East studies regional concentration curriculum. At least one course must be selected from the social sciences group and at least one course must be selected from the humanities and arts group. At least nine hours must be at the 3000 level and above.

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

Requirements for the Minor

Core Courses and Global Perspective (6 Credit Hours)

Two from the following:

Core Courses

- ANTH 2301 - Introductory Cultural Anthropology
- INTL 1301 - Introduction to International Studies
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations
- PLSC 3389 - International Political Economy

Global Perspective

These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma
- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam

- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing (study abroad programs)
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations (also study abroad)
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Regional Concentration (9 Credit Hours)

Three from the following, with at least one from the social sciences group and at least one from the humanities and arts group:

Social Sciences

- ANTH 3314 - Peoples of Africa
- ANTH 3359 - Peoples and Cultures of the Middle East
- HIST 2379 - A History of Islamic Empires
- HIST 2391 - Africa to the 19th Century
- HIST 2392 - Modern Africa
- HIST 3350 - A History of Ancient Egypt
- HIST 3351 - History of Ancient Near East
- HIST 3378 - Problems in African History
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- PLSC 3345 - Governments and Politics of the Middle East
- PLSC 3347 - Governments and Politics of Africa
- PLSC 4345 - Islam and Politics

Humanities and Arts

- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda
- WL 3349 - The African Diaspora: Literature and History of Black Liberation
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 15 Credit Hours

Asian Studies Minor

Professor Luigi Manzetti, **Director**

Students who minor in Asian studies should refer to the Area Studies Minor Requirements. The minor requires 15 credit hours of coursework. The first six credit hours (two courses) must be chosen from the Core Courses or the Global Perspective. The next nine credit hours (three courses) must be chosen from the Asian studies regional concentration curriculum. At least one course must be selected from the social sciences group and at least one course must be selected from the humanities and arts group. At least nine hours must be at the 3000 level and above.

A cocurricular requirement for the minor in Asian studies is two years of college-level study of an Asian language. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Asia. Most of the courses taught in University study abroad programs in Asia may be applied to the Asian studies minor.

Requirements for the Minor

Core Courses and Global Perspective (6 Credit Hours)

Two from the following:

Core Courses

- ANTH 2301 - Introductory Cultural Anthropology
- INTL 1301 - Introduction to International Studies
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations
- PLSC 3389 - International Political Economy

Global Perspective

These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma

- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing (study abroad programs)
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations (also study abroad)
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Regional Concentration (9 Credit Hours)

Three from the following, with at least one from the social sciences group and at least one from the humanities and arts group:

Social Sciences

- ANTH 3323 - East Asia in Motion
- ANTH 4390 - Current Issues in Anthropology
- BA 3300 - Special Topics: International Business Administration
- HIST 2325 - Human Rights in Modern South Asia
- HIST 2390 - Civilization of India
- HIST 2394 - China Before 1850
- HIST 2395 - Modern East Asia
- HIST 3393 - China in Revolution
- HIST 3398 - Women in Chinese History
- PLSC 3346 - Japanese Politics and Society
- PLSC 3352 - Chinese Politics
- PLSC 4340 - Special Studies in Comparative Governments and Politics
- PLSC 4353 - Political Economy of East Asia
- PLSC 4386 - International Relations of East Asia

Humanities and Arts

- ARHS 3394 - Art and Architecture of Japan
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- RELI 1303 - Introduction to Asian Religions
- RELI 3306 - Hinduism
- RELI 3307 - Buddhism

- RELI 3365 - Understanding Self: East and West
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- RELI 3382 - Mysticism
- RELI 3384 - Hinduism and Colonial Encounters
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China

Total: 15 Credit Hours

European Studies Minor

Professor Luigi Manzetti, **Director**

Students who minor in European studies should refer to the Area Studies Minor Requirements. The minor requires 15 credit hours of coursework. The first six credit hours (two courses) must be chosen from the Core Courses or the Global Perspective. The next nine credit hours (three courses) must be chosen from the European studies regional concentration curriculum. At least one course must be selected from the social sciences group and at least one course must be selected from the humanities and arts group. At least nine hours must be at the 3000 level and above.

A cocurricular requirement for the minor in European studies is two years of college-level study of a European language other than English. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Europe. Most of the courses taught in University study abroad programs in Europe may be applied to the European studies minor.

Requirements for the Minor

Core Courses and Global Perspective (6 Credit Hours)

Two from the following:

Core Courses

- ANTH 2301 - Introductory Cultural Anthropology
- INTL 1301 - Introduction to International Studies
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations
- PLSC 3389 - International Political Economy

Global Perspective

These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World

- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma
- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing (study abroad programs)
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations (also study abroad)
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Regional Concentration (9 Credit Hours)

Three from the following, with at least one from the social sciences group and at least one from the humanities and arts group:

Social Sciences

- ANTH 3355 - Society and Culture in Contemporary Europe
- BA 3300 - Special Topics: International Business Administration
- HIST 2323 - Russian Culture
- HIST 2366 - Europe in the Modern World, 1760 to the Present
- HIST 3328 - History of Modern Germany
- HIST 3329 - Women in Early Modern Europe
- HIST 3330 - Women in Modern European History
- HIST 3334 - France Since 1789
- HIST 3335 - One King, One Law: France 1500-1789
- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present

- HIST 3343 - 20th-Century Europe
- HIST 3352 - The Age of the Crusades
- HIST 3353 - The History of Ancient Greece
- HIST 3358 - The Renaissance
- HIST 3359 - Europe in the Age of the Reformation, 1520-1598
- HIST 3363 - The Holocaust
- HIST 3365 - Problems in European History
- HIST 3366 - Problems in European History
- HIST 3374 - Diplomacy in Europe: Napoleon to the European Union (SMU-in-Oxford)
- HIST 3376 - Intellectual History of Europe
- HIST 3381 - The First World War and Its Impact
- HIST 4314 - Jews in Europe: Middle Ages to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- HIST 4373 - History of Modern France
- HIST 4388 - Georgian and Victorian England (SMU-in-Oxford)
- MNO 3300 - Special Topics in International Management I
- PLSC 3340 - Western European Politics
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 4340 - Special Studies in Comparative Governments and Politics
- PLSC 4380 - Special Studies in International Relations
- PLSC 4384 - American-Russian Relationship

Humanities and Arts

- ARHS 1303 - Introduction to Western Art I
- ARHS 1304 - Introduction to Western Art II
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3320 - Medieval Art and Architecture
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3329 - Paris Art and Architecture I
- ARHS 3330 - Renaissance and Baroque Architecture
- ARHS 3331 - Art and Culture of the Italian Renaissance
- ARHS 3332 - 16th-Century Italian Art
- ARHS 3333 - Special Topics in Italian Art and Architecture
- ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
- ARHS 3344 - Paintings at the Prado
- ARHS 3346 - Paris Art and Architecture II
- ARHS 3350 - The Making of Modern Life: Art and Design in the 19th Century
- ARHS 3354 - History and Theory of Prints
- ARHS 3387 - Picturing Children and the Family in Art: 1850 to the Present
- ENGL 3341 - British Literary History II: Wordsworth Through Yeats
- ENGL 3344 - Victorian Gender and Sexuality
- FREN 3365 - Contemporary French Cinema *(formerly FREN 4365 prior to Fall 2019)*
- FREN 3384 - Introduction to French Culture and Literature I *(formerly FREN 4379 prior to Fall 2019)*
- FREN 3385 - Introduction to French Culture and Literature II *(formerly FREN 4380 prior to Fall 2019)*
- FREN 3386 - Introduction to French Culture and Literature III *(formerly FREN 4381 prior to Fall 2019)*
- FREN 4373/FREN 4374 - French Civilization
- FREN 4375 - Introduction to French History and Culture
- FREN 4376 - Introduction to Francophone Cultures
- PHIL 3333 - Topics in Philosophy
- PHIL 3352 - History of Western Philosophy (Modern)
- PHIL 3353 - 19th-Century Philosophy

- WL 3303/SPAN 3373 - Topics in Spanish Civilization
- WL 3323/HIST 2323 - Russian Culture
- WL 3331 - Survey: Russian Literature in Translation
- WL 3369 - Perspectives on Modern Germany
- WL 3390 - Italian Cinema
- WL 3391 - Italian Literature in Translation: The Italian Novel

Total: 15 Credit Hours

Latin American and Iberian Studies Minor

Professor Luigi Manzetti, **Director**

Students who minor in Latin American and Iberian studies should refer to the Area Studies Minor Requirements. The minor requires 15 credit hours of coursework. The first six credit hours (two courses) must be chosen from the Core Courses or the Global Perspective. The next nine credit hours (three courses) must be chosen from the Latin American and Iberian studies regional concentration curriculum. At least one course must be selected from the social sciences group and at least one course must be selected from the humanities and arts group. At least nine hours must be at the 3000 level and above.

A cocurricular requirement for the minor in Latin American and Iberian studies is two years of college-level study of Spanish or Portuguese. To maximize the educational experience, students are strongly encouraged to spend at least one term or summer studying in Latin America or Iberia. Most of the courses taught in University study abroad programs in Latin America/Iberia may be applied to the Latin American and Iberian studies minor.

Requirements for the Minor

Core Courses and Global Perspective (6 Credit Hours)

Two from the following:

Core Courses

- ANTH 2301 - Introductory Cultural Anthropology
- INTL 1301 - Introduction to International Studies
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1380 - Introduction to International Relations
- PLSC 3389 - International Political Economy

Global Perspective

These courses do not have a regional focus:

- ANTH 3301/SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3333 - The Immigrant Experience
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3348 - Health as a Human Right
- ANTH 3366/RELI 3366 - Magic, Myth, and Religion Across Cultures
- ANTH 3368/SOCI 3368 - Global Urbanism: Implosions/Explosions
- ANTH 3384 - Paradise Lost? Long-Term Perspectives on Human Impacts on the Environment
- ANTH 3388 - Warfare and Violence: The Anthropology and Ethics of Human Conflict
- ANTH 4303 - Political Economy of Health
- ANTH 4304 - Migration, Ethnicity, and Nationalism
- ANTH 4307 - Global and Public Health
- ANTH 4309 - Human Rights, Indigenous Peoples, and Nation States
- ANTH 4384 - Political Economy: Global Processes and Problems (seniors only)

- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- BA 3300 - Special Topics: International Business Administration (study abroad)
- CCPA 3321 - Communication in Global Context
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5362 - Economic Growth
- FILM 3351 - International Film History
- FILM 4399 - Global Media Systems
- FINA 4329 - International Finance (available only to business majors with a minor or second major in international studies)
- HIST 3301 - Human Rights: America's Dilemma
- HIST 3306 - Colony to Empire: U.S. Diplomacy 1789-1941
- HIST 3307 - The U.S. and the Cold War, 1945-1989
- HIST 3399 - U.S. Foreign Policy From the Spanish American War to Vietnam
- INTL 3381 - Current Issues in International Politics
- MKTG 3300 - Topics in International Marketing (study abroad programs)
- MKTG 3348 - International Marketing (available only to business majors with a minor or second major in international studies)
- PLSC 3342 - Making Democracy Work
- PLSC 3365 - Communism and Post-Communism
- PLSC 3382 - International Organizations
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3387 - Political Geography
- PLSC 4342 - Why Nations Revolt
- PLSC 4344 - Gender in World Politics
- PLSC 4346 - Movements and Protests
- PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
- PLSC 4354 - The Third World and North-South Relations
- PLSC 4380 - Special Studies in International Relations (also study abroad)
- PLSC 4381 - National Security Policy
- PLSC 4382 - The Politics of Military Force
- PLSC 4390 - NGOs in Global Politics
- PLSC 4398 - Nuclear Weapons and World Politics
- RELI 1304 - Introduction to Western Religions
- SOCI 3340 - Global Society
- SOCI 4321 - The Politics of Immigration: A Global Perspective

Regional Concentration (9 Credit Hours)

Three from the following, with at least one from the social sciences group and at least one from the humanities and arts group:

Social Sciences

- ANTH 3313 - South American Indians of the Past and Present
- ANTH 3354 - Latin America: Peoples, Places, and Power
- HIST 2384 - Latin America: The Colonial Period
- HIST 2385 - Latin America in the Modern Era
- HIST 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
- HIST 3324 - The Mexican Americans, 1848 to the Present
- HIST 3382 - History of Mexico
- PLSC 3348 - Governments and Politics of Latin America
- PLSC 3349 - Politics of Major Latin American Countries
- PLSC 4340 - Special Studies in Comparative Governments and Politics

- PLSC 4356 - Latin American Political Economy
- SOCI 3370 - Minority-Dominant Relations
- SOCI 3372 - Contemporary Issues in the American Southwest

Humanities and Arts

- ANTH 3312 - Mesoamerican Archaeology
- ARHS 1308 - Epic of Latin America
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3338 - Sacred and Profane: Spanish Art and Architecture
- ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
- ARHS 3344 - Paintings at the Prado
- ARHS 3360 - Modern Painters in Spain
- ARHS 3363 - Topics in Brazilian Art and Architecture
- ARHS 3376 - Latin American Art
- ARHS 3377 - Art and Architecture of Hispanic New Mexico
- ARHS 3336 - Power and Spectacle: The Arts of the Early Modern Hispanic World
- ARHS 3301 - Art and Experience in Inka Peru
- ARHS 3302 - The Ancient Maya: Art and History
- ARHS 3304 - Aztecs of Mexico: Art and History
- ARHS 3340 - Visual Culture in Colonial Mexico
- ENGL 3363 - Chicana/Chicano Literature
- RELI 3353 - Identity and the Sacred in the Southwest
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 4391 - Commercial Spanish for International Trade
- SPAN 4395 - Introduction to Hispanic Literature
- SPAN 5310 - Spanish Literature Before 1700
- SPAN 5311 - Spanish Literature Since 1700
- SPAN 5315 - Spanish-American Literature to 1888
- SPAN 5316 - Spanish-American Literature Since 1888
- SPAN 5321 - The Renaissance and Golden Age: Prose Fiction
- SPAN 5323 - 19th-Century Prose Fiction
- SPAN 5325 - 20th-Century Peninsular Prose Fiction
- SPAN 5334 - The Novel, Post-Civil War
- SPAN 5335 - Genre Studies (Spain)
- SPAN 5336 - Spanish-American Novel
- SPAN 5337 - Spanish-American Essay
- SPAN 5338 - Spanish–American Short Story
- SPAN 5339 - Spanish-American Poetry
- SPAN 5361 - Don Quixote: The Idea, the Character, the Book
- SPAN 5365 - Contemporary Spanish Women Writers
- SPAN 5370 - Rewriting Discovery and Exploration in the Spanish Borderlands
- SPAN 5375 - Contemporary Fiction by Latin American Women Writers
- WL 3303/SPAN 3373 - Topics in Spanish Civilization
- WL 3306 - Chicano Cultural Heritage

Total: 15 Credit Hours

International Studies Courses

INTL 1301 - Introduction to International Studies

Credits: 3

Offers students the basic knowledge and core skills necessary to analyze the global experience from a

multidisciplinary perspective. Students will acquire an understanding of the forces and events that shape the world in which we live.

INTL 3381 - Current Issues in International Politics
Credits: 3
An interdisciplinary survey of contemporary issues and challenges in the international arena. Students research and propose solutions, taking into account the multidimensional aspects of these international challenges.

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

INTL 4307 - Departmental Distinction Thesis
Credits: 3
Candidates for departmental distinction write a thesis under the direction of an International Studies faculty member, culminating in an oral examination over the field of the thesis. Prerequisite: Admission to departmental honors candidacy.

INTL 4385 - Internship in International Studies
Credits: 3
Undergraduate students who arrange for part-time or full-time jobs in fields related to international studies connect these experiences to their academic curriculum through research and writing, under the guidance of an International Studies faculty member. Prerequisites: Written approval of the instructor and the program director or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

INTL 4388 - Senior Seminar: International Government and Politics
Credits: 3
Senior seminar required for all international studies majors that students with an opportunity to integrate their studies. The topic is thematic and varies depending upon the instructor.

Jewish Studies Minor

www.smu.edu/jewishstudies
Senior Lecturer Shira Lander, **Director**

The minor in Jewish studies offers students of all backgrounds a multidisciplinary examination of Jewish culture and religion, the Jewish people, and the State of Israel. Students take one core course in Jewish studies and four elective courses. For the electives, students have two options: (a) they may take one general elective and three focused electives; or (b) they may take four focused electives. At least three of the focused electives must be at the 3000 level and higher.

Coursework for the minor must be distributed as follows:

Requirements for the Minor

Jewish Studies (3 Credit Hours)

- JWST 1300 - Introduction to Jewish Studies

General Elective Courses (0-3 Credit Hours)

At most one course from the following:

- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 3351 - History of Ancient Near East
- HIST 3390 - Modern Middle East: 1914 to Present
- MDVL 3351 - The Pilgrimage: Medieval
- RELI 1304 - Introduction to Western Religions
- RELI 3341 - Religion in the United States Since 1865
- RELI 3342 - Religion in the United States to 1865
- RELI 3352 - Love and Death

Focused Elective Courses (9-12 Credit Hours)

At least three courses from the following at the 3000 level and higher:

- ARHS 3317 - Land Between Two Rivers: Art of Ancient Iraq and Its Neighbors
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text *(formerly ARHS 3399 prior to Fall 2020)*
- ARHS 3324 - Art and Cultures of Medieval Spain
- ENGL 3365 - Jewish–American Literature and Culture
- ENGL 3385/HRTS 3385 - Literature of the Holocaust
- HIST 3363 - The Holocaust
- HIST 3365 - Problems in European History
- HIST 3389 - Problems in Middle Eastern History
- HIST 3396 - Coexistence and Conflict in the Middle East
- HIST 4314 - Jews in Europe: Middle Ages to the Present
- PLSC 3345 - Governments and Politics of the Middle East
- RELI 1311 - Judaism, Christianity, and the Bible
- RELI 3318 - The Hero in the Bible and the Ancient Near East
- RELI 3319 - Old Testament
- RELI 3320 - Classical Judaism
- RELI 3321 - Religion and the Holocaust
- RELI 3324 - American Judaism
- RELI 3326 - New Testament
- RELI 3347 - Dallas' Houses of Worship: Staging the Sacred in a 21st Century American City
- RELI 3348 - Temples, Churches, and Synagogues in the Ancient Mediterranean
- RELI 3360 - The History of Judaism
- RELI 3371 - The World of the New Testament

- RELI 3383 - Reel Judaism: Cinematic Representations of Jewish Life
- RELI 3390 - A Persistent Prejudice: Anti-Semitism in Western Civilization
- RELI 4388 - Special Topics in Religious Studies

Total: 15 Credit Hours

Jewish Studies Course

JWST 1300 - Introduction to Jewish Studies
Credits: 3
Introduces the various subfields and research methods used within the interdisciplinary field of Jewish studies: Hebrew language; Israel studies; Judaism; and Jewish art, history, literature, and music. Provides academic foundations for advanced courses offered in each of these areas.

Law and Legal Reasoning Minor

www.smu.edu/Dedman/Academics/Departments/PoliticalScience/Minor-in-Law-and-Legal-Reasoning
Associate Professor Pamela Corley, **Director**

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

PLSC 1320 - Introduction to American Government and Politics is strongly suggested for the minor. Students must take a minimum of 18 credit hours. At least 12 credit hours must be 3000 or 4000 level classes.

Requirements for the Minor

Required Course (3 Credit Hours)

One course from the following:

- PLSC 3325 - Introduction to Law
- PLSC 3330 - Law, Politics, and the Supreme Court

Elective Courses (15 Credit Hours)

Five courses from the following:

Group A

Two courses from the following:

- CCPA 2300 - Public Speaking in Context
- CCPA 2310 - Rhetoric, Community, and Public Deliberation
- CCPA 3300 - Free Speech and the First Amendment
- CCPA 3328 - Political Persuasion
- CCPA 4323 - Forensics Workshop
- MSA 4324 - Competitive Mock Trial

Group B:

One course from the following:

- PLSC 3325 - Introduction to Law
- PLSC 3330 - Law, Politics, and the Supreme Court
- PLSC 3335 - Judicial Process
- PLSC 3341 - Introduction to Comparative Law
- PLSC 4335 - Constitutional Law
- PLSC 4336 - Civil Liberties: First Amendment and Privacy
- PLSC 4337 - Civil Rights
- PLSC 4338 - Criminal Procedure: 4th Amendment Rights
- PLSC 4339 - Criminal Procedure: 5th and 6th Amendment Rights
- PLSC 4341 - Comparative Rights and Representation
- PLSC 4371 - Ethics and the Law

Group C

Two courses from the following:

- ECO 5353 - Law and Economics
- PHIL 1301 - Elementary Logic
- PHIL 3373 - Philosophy of Criminal Law
- PHIL 3374 - Philosophy of Law
- SOCI 3360 - Law and Society
- SOCI 3363 - Crime and Delinquency

Total: 18 Credit Hours

Notes:

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

Medieval Studies, B.A.

www.smu.edu/medievalstudies
Associate Professor Bonnie Wheeler, **Director**

The Medieval Studies Program affords the student an opportunity for a classically liberal education within a broad subset of Western (Celtic, Franconic, Italic, Germanic, Visigothic) and non-Western (Byzantine, Islamic, Persian) contexts. Studies reveal how the historical shapes, institutional structures, literary visions and artistic forms that emerged from the Middle Ages have colored our concepts of God, society, self, love, individualism and success. It is appropriate for preprofessional training in multiple fields such as business, religious studies, biology, music theory, and world languages and literatures. The major can also lead to graduate work in medieval studies or, more usually, in such disciplines as literature, history, and art and music history.

The Dallas Medieval Consortium makes it possible for students at SMU and the University of Dallas to enroll in selected medieval studies courses on the other campuses. Through the consortium, SMU students can elect no more than 15 credit hours in medieval subject courses at any other consortium university.

Medieval studies is an interdisciplinary major of 30 credit hours in medieval subjects, and advanced Latin language and literature, distributed over at least three broad subject areas in medieval studies: 1) history, 2) literature, and 3) music and visual arts (art/music history), with no fewer than six credit hours in each area. Latin language and literature courses after the second year may, with the approval of the director, count toward hours for the medieval studies major. Students are encouraged to take courses in medieval philosophy, religious studies and church history when they are available. Individual student programs are approved by the director and a committee of two other members of the Medieval Studies Program faculty.

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

Departmental Distinction

The major offers graduation with distinction to select student majors of high academic achievement. Interested students with a minimum 3.000 overall GPA and a 3.500 GPA in the major may consult with the director of the Medieval Studies Program for admission to the distinction track. If the director determines that the student has satisfied the requirements, the student may then request a faculty member to direct a senior-year distinction paper. The distinction paper must be a substantial piece of independent and original research that will be presented to and evaluated by a distinction committee. Upon positive recommendation from this committee, the student will be awarded graduation with distinction. Criteria for graduating with departmental distinction include the following:

1. A minimum 3.000 overall GPA at graduation.
2. A minimum 3.500 average in courses taken for the medieval studies major.
3. Preparation of a distinction thesis under the supervision of a faculty member while enrolled in MDVL 5399. MDVL 5399 will be taken in addition to all other requirements for the major. The faculty adviser's grade for the thesis must be *A-* or higher.
4. A passing grade on an oral examination conducted by a faculty distinction committee, which reviews the candidate's thesis. The distinction committee includes the faculty adviser, the director of the Medieval Studies Program and one additional faculty member selected by the faculty adviser in consultation with the student.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Medieval Studies (3-6 Credit Hours)

One or two interdisciplinary courses from the MDVL course list.

- MDVL 3327 - The Unicorn: Understanding Varieties of Truth in the Middle Ages

- MDVL 3329 - The World of King Arthur
- MDVL 3351 - The Pilgrimage: Medieval
- MDVL 3353 - Medieval Ideas
- MDVL 3398 - Directed Studies
- MDVL 3399 - Directed Studies
- MDVL 4371 - Special Topic
- MDVL 5301 - Independent Study
- MDVL 5302 - Independent Study
- MDVL 5398 - Independent Study
- MDVL 5399 - Independent Study

Advanced Latin Language and Literature (6 Credit Hours)

- LATN 3324 - Advanced Latin Grammar and Composition
- LATN 3325 - Advanced Latin Readings and Composition

Art History and Music History (6-9 Credit Hours)

Two or three courses from the following:

- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3320 - Medieval Art and Architecture
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3329 - Paris Art and Architecture I (SMU-in-Paris)
- ARHS 4320 - Seminar on Medieval Art
- MUHI 3301 - Survey of Music History I
- MUHI 4301 - Research Project in Music History (when applicable)
- MUHI 4392 - Directed Study in Music History

History (6-9 Credit Hours)

Two or three courses from the following:

- HIST 3332 - Ancient and Medieval France
- HIST 3345 - England in Medieval and Early Modern Times
- HIST 3350 - A History of Ancient Egypt
- HIST 3351 - History of Ancient Near East
- HIST 3352 - The Age of the Crusades
- HIST 3357/ENGL 3371 - Joan of Arc: History, Literature, and Film
- ENGL 3371 - Joan of Arc: History, Literature, and Film
- HIST 3365 - Problems in European History (when applicable)
- HIST 3366 - Problems in European History (when applicable)
- HIST 4324 - Medieval Spirituality
- HIST 4325 - Islam to A.D. 1453
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3362 - Islam and the West

Literature (6-9 Credit Hours)

Two or three courses from the following:

- ENGL 1320 - Cultures of Medieval Chivalry
- ENGL 3320 - Topics in Medieval Literature

- ENGL 3371 - Joan of Arc: History, Literature, and Film
  or
- HIST 3357 - Joan of Arc: History, Literature, and Film

- ENGL 3389 - Directed Studies (when applicable)
- ENGL 4323 - Chaucer

- FREN 4363 - Genre Studies (when applicable)
- SPAN 5310 - Spanish Literature Before 1700
- WL 3365 - Special Topics French Literature in Translation (when applicable)
- WL 3391 - Italian Literature in Translation: The Italian Novel (when applicable)
- WL 3393 - Dante's Poetic Vision
- WL 2355 - Literature and Theology: Catholic Thought From Augustine to the Present
- RELI 3326 - New Testament

Total for the Major Only: 30 Credit Hours

Medieval Studies Minor

www.smu.edu/medievalstudies
Associate Professor Bonnie Wheeler, **Director**

A student must complete 15 credit hours from the courses listed in Medieval Studies, B.A., at least nine of which must be nine advanced hours (3000 level and above). Additionally, at least three hours must be interdisciplinary. Some of the MDVL courses are interdisciplinary. Other courses may also satisfy the interdisciplinary component. Individual student programs are approved by the director of the Medieval Studies Program.

Medieval Studies Courses

MDVL 3327 - The Unicorn: Understanding Varieties of Truth in the Middle Ages
Credits: 3
Investigates the question of how history and fiction were perceived in the Middle Ages.

MDVL 3329 - The World of King Arthur
Credits: 3
Study of Britain's greatest native hero and one of the world's most compelling story stocks: the legends of King Arthur and the Knights of the Round Table.

MDVL 3351 - The Pilgrimage: Medieval
Credits: 3
A look at the medieval world through one of its own literal and metaphorical images, investigating the music, art, monuments, and literature of pilgrimage during the Middle Ages.

MDVL 3353 - Medieval Ideas
Credits: 3
Presents some of the classic achievements of the medieval mind, focusing on developments of continuing interest; where advisable, comparisons and contrasts are drawn with methods of thinking and solving problems in use in later times. While the focus is on medieval Europe and the adjacent Muslim world, wherever possible, students' attention is drawn to developments in other culture areas.

MDVL 3398 - Directed Studies
Credits: 3

MDVL 3399 - Directed Studies
Credits: 3

MDVL 4371 - Special Topic
Credits: 3
Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5301 - Independent Study
Credits: 3
Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5302 - Independent Study
Credits: 3
Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5398 - Independent Study
Credits: 3
Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

MDVL 5399 - Independent Study
Credits: 3
Research and writing in medieval fields on special topics at the forefront of current intellectual interest.

Neuroscience Minor

Associate Professor Edward Glasscock, **Director**

Neuroscience is the study of the nervous system, incorporating the perspectives of several fields of study. Students will explore the relationship between the brain, the rest of the body, and the environment with respect to affect, behavior, and cognition. The disciplines of biology, psychology, and philosophy are particularly pertinent to this interdisciplinary minor. This interdisciplinary minor is well suited to biological sciences, health and society, and psychology majors, pre-health professions students or those interested in a career in neuroscience.

A maximum of two courses can double-count towards this minor and all other minors/majors combined.

Eligibility

In order to apply for the minor in neuroscience, a student must have:

1. Earned at least a *C*- in BIOL 1301/BIOL 1101 (or AP/transfer course equivalents)
2. Earned at least a *C*- in PSYC 1300 (or AP/transfer course equivalents)

Requirements for the Minor

The neuroscience minor requires six courses (18 credit hours) from the lists below. Students take two foundational courses, two depth courses, and one each from the philosophical dimension and the elective course list.

Foundation Courses (6 Credit Hours)

Two courses required. These introductory courses provide preparation for the study of neuroscience. (Note: Students are required to take both BIOL courses and their companion lab courses prior to taking advanced BIOL 3323 or any other advanced biology class. Only BIOL 1301 counts toward the minor; the lab courses do not count toward the minor.)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  or
- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- PSYC 1300 - Introduction to Psychology

Depth Courses (6 Credit Hours)

Two courses required. These are the centerpieces of the minor.

- BIOL 3323 - Biology of the Brain
  or
- BIOL 5340 - Molecular Basis of Brain Development and Degeneration

- PSYC 4320 - Behavioral Neuroscience

Philosophical Dimension Course (3 Credit Hours)

One philosophy course is required to broaden students' perspective on neuroscience.

- PHIL 3315 - Philosophy of Mind
- PHIL 3316 - Minds, Brains, and Robotics
- PHIL 3323 - Philosophy of Psychology and Neuroscience
- PHIL 3324 - Consciousness: Theoretical and Empirical Approaches
- PHIL 3381 - Neuroethics

Elective Course (3 Credit Hours)

One elective course from this list is required. The elective course can be in biology, psychology, or philosophy.

- BIOL 3304 - Genetics
- BIOL 4306 - Human Anatomy with Physiology
- BIOL 5340 - Molecular Basis of Brain Development and Degeneration
- BIOL 5364 - Integrated Human Physiology with Endocrinology
- ECE 5341 - Computational Neuroscience
- PSYC 2351 - Psychopathology
- PSYC 4310 - Cognition and the Brain
- PSYC 4321 - Behavioral Action of Drugs
- PSYC 4322 - Social and Affective Neuroscience
- PSYC 4325 - Psychology of Emotions
- Any of the philosophical dimension courses listed above that have not already been taken

Total: 18 Credit Hours

Public Policy, B.A.

www.smu.edu/publicpolicy
Professor Dennis Ippolito, **Director**

The public policy major is an interdisciplinary program in economics and political science designed to provide students with the analytical skills and historical context to understand and address contemporary policy issues. The major in public policy is useful as preparation for work in government and business and as preparation for postgraduate study in law, public policy and the social sciences.

The B.A. degree in public policy requires 39 credit hours of coursework, including at least 15 credit hours of advanced courses selected from the electives, with no fewer than six hours in economics and six hours in political science or public policy. Students must receive at least a *C-* in all classes counting toward the major. A maximum of 12 credit hours of (preapproved) advanced-level courses in SMU-approved study abroad programs may be counted toward the major.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (24 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- ECO 3301 - Price Theory (Intermediate Microeconomics)

- MATH 1309 - Introduction to Calculus for Business and Social Science
  or
- MATH 1337 - Calculus I

- PLSC 1320 - Introduction to American Government and Politics

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

- PLSC 3320 - Principles of Public Policy

- STAT 2331 - Introduction to Statistical Methods
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Electives (15 Credit Hours)

Quantitative Methods

One course from the following:

- ECO 5341 - Strategic Behavior
- ECO 5350 - Introductory Econometrics
- ECO 5375 - Economic and Business Forecasting
- PLSC 4304 - Political Science Research Methods

Additional Courses

Two courses from any two of the following groups:

Political Economy

- ECO 4365 - State and Local Government
- ECO 4371 - Theory of Industrial Structure
- ECO 4382 - Economics of Regulated Industries
- ECO 4385 - Macroeconomics: Theory and Policy
- ECO 5365 - Federal Government Expenditures
- ECO 5366 - Federal Government Taxation
- PLSC 3382 - International Organizations
- PLSC 3389 - International Political Economy
- PLSC 4333 - Policy, Politics, and the Budget
- PLSC 4356 - Latin American Political Economy

Law and Social Policy

- ECO 4340 - Cultural Economics
- ECO 4351 - Labor Economics
- ECO 4361 - Economics of Education
- ECO 5337 - Urban Economics
- ECO 5353 - Law and Economics
- PLSC 3321 - Congress and the Legislative Process
- PLSC 3327 - Texas Politics
- PLSC 3330 - Law, Politics, and the Supreme Court
- PLSC 3333 - Environmental Policy
- PLSC 3335 - Judicial Process
- PLSC 3370 - Women and Politics
- PLSC 4321 - Basic Issues in American Democracy
- PLSC 4334 - The Politics and Legacies of the Civil Rights Movement
- PLSC 4335 - Constitutional Law
- PLSC 4336 - Civil Liberties: First Amendment and Privacy
- PLSC 4337 - Civil Rights
- PLSC 4338 - Criminal Procedure: 4th Amendment Rights
- PLSC 4339 - Criminal Procedure: 5th and 6th Amendment Rights
- PLSC 4341 - Comparative Rights and Representation
- PLSC 4371 - Ethics and the Law
- PP 3310 - Environmental Policy

International Politics and Policy

- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- FINA 4329 - International Finance *(available only to business majors with a second major in public policy)*
- PLSC 3340 - Western European Politics
- PLSC 3345 - Governments and Politics of the Middle East
- PLSC 3346 - Japanese Politics and Society
- PLSC 3347 - Governments and Politics of Africa
- PLSC 3348 - Governments and Politics of Latin America
- PLSC 3352 - Chinese Politics
- PLSC 3358 - Government and Politics of Russia
- PLSC 3383 - The American Foreign Policy Process
- PLSC 3389 - International Political Economy
- PLSC 4342 - Why Nations Revolt
- PLSC 4356 - Latin American Political Economy
- PLSC 4381 - National Security Policy

- PLSC 4382 - The Politics of Military Force
- PLSC 4384 - American-Russian Relationship
- PLSC 4386 - International Relations of East Asia
- PLSC 4398 - Nuclear Weapons and World Politics
- STRA 5370 - Strategic Management in a Global Economy *(available only to business majors with a second major in public policy)*

Total for the Major Only: 39 Credit Hours

Public Policy and International Affairs Minor (Tower Scholars Program)

www.smu.edu/TowerCenter/TowerScholars
Diana Newton, **Director**

The minor in public policy and international affairs is a selective course of study for students who have been accepted to the Tower Scholars Program in their first year at SMU. Students in the program are exposed to both the theoretical and practical aspects of policymaking through courses taught by both faculty who study policy and policymakers who craft it. The program trains students in policy analysis, critical thinking, and concise writing while providing them with experience in making practical, actionable policy recommendations for real-world clients. The Tower Scholars Program is open to students of all majors.

Tower Scholars Program Application Process

A first-year student currently enrolled at SMU may apply to become a Highland Capital Management Tower Scholar via the competitive application process outlined below. To be considered for admission, applicants must have a GPA of 3.300 or higher, and must agree to complete the prerequisites/corequisites for the selective minor.

The selection process for choosing Highland Capital Management Tower Scholars will be based on merit and determined by the application and interview process. Applicants must submit the following items:

- Application form, including essays as described on the application;
- Two letters of recommendation, at least one of which must be from a current SMU faculty member who has taught the applicant in an SMU course;
- A copy of a current transcript.

The applicant pool will be evaluated using a variety of relevant criteria, including, but not limited to, the following: the relevance of the minor in public policy and international affairs to a student's goals; a strong academic record; a strong extracurricular record at SMU; demonstrated leadership and a sense of social responsibility; and excellent written and oral communication skills. The Tower Scholars Program accepts students from a variety of majors and schools and will consider diversity, broadly defined.

Once the applicant pool has been evaluated, a select number of students will be invited to the final stage of the application process, which is an interview with the selection committee. In addition to the criteria listed above, the selection committee will seek to evaluate the verbal communication skills of each candidate and will expect candidates to be able to discuss policy issues of interest to them and express why being accepted into the public policy and international affairs minor would be meaningful to their academic and professional goals.

Students accepted to the Tower Scholars Program are expected to commit to participating in all aspects of the program (courses, program events, networking events, etc.)

Prerequisites/Corequisities for the Minor

The following prerequisites/corequisites for the minor must be completed before students begin their junior year:

- A grade of *C*- or better in one economics course (ECO 1311 or ECO 1312) or a score of 4 or better in the Macroeconomics Advanced Placement Test, or the Microeconomics Advanced Placement Test.

- A grade of *C*- or better in one quantitative course (MATH 1309 or MATH 1337, SOCI 3311 or SOCI 3312, or STAT 2331 or STAT 4340) or a score of 4 or better in the Statistics Advanced Placement Test.

Requirements for the Minor

- PPIA 2380 - Gateway to Global Policymaking
- PPIA 3301 - Junior-Year Policy Seminar: Theoretical Public Policy
- PPIA 3302 - Junior-Year Policy Seminar: Public Policy in Professional Practice
- PPIA 4306 - Tower Scholars Directed Research Project
- PLSC 3320 - Principles of Public Policy

Total: 15 Credit Hours

Public Policy Course

PP 3310 - Environmental Policy
Credits: 3
Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

Public Policy and International Affairs Courses

PPIA 2380 - Gateway to Global Policymaking
Credits: 3
Examines foreign, economic, and domestic policy issues and analyzes the ways policy is made in the United States. Students look at the interaction of substantive policy problems, policy tools, and organizational structures at the local, national, and international levels, while considering the ethics of political choices. Reserved for Highland Capital Management Tower Scholars.

PPIA 3301 - Junior-Year Policy Seminar: Theoretical Public Policy
Credits: 3
First of a two-part sequence. Students review policy case studies and learn how to analyze and interpret data related to public policy issues. They apply what they learn during the following term, in PPIA 3302. Reserved for Highland Capital Management Tower Scholars.

PPIA 3302 - Junior-Year Policy Seminar: Public Policy in Professional Practice
Credits: 3
Second of a two-part sequence. Students work on a specific policy-related project from a real-world setting. Culminates in written policy recommendations presented to a nonacademic client. Prerequisite: PPIA 3301. Reserved for Highland Capital Management Tower Scholars.

PPIA 4306 - Tower Scholars Directed Research Project
Credits: 3
Offers Tower Scholars experience in varied organizations and agencies. Students conduct in-depth research, analysis, and structured reflection on an assigned policy issue. Includes interviews and discussions off-campus, research online and in the SMU libraries, and completion of a significant and useful research paper. During weekly class meetings, students relate their fieldwork experiences to readings, discussions, and the shared experiences of fellow Tower Scholars. Reserved for Highland Capital Management Tower Scholars.

Women's and Gender Studies Minor

www.smu.edu/womgenstudies
Josephine Caldwell-Ryan, **Director**

The minor in women's and gender studies exposes students to new ways of thinking about personal identity, as well as about traditional scholarly inquiry into intersections of gender, sexuality, race, class, nationality, religion, and more. Students will use these lenses to explore a variety of social problems and power structures. They will also learn about a variety of life experiences and identities related to gender and sexuality. Because the program is interdisciplinary, students will explore power structures and identities from a variety of academic perspectives and how they function in diverse time periods and places. The women's and gender studies minor complements virtually any major, as it builds critical thinking skills and leadership skills for diverse communities and workplaces.

Students satisfy requirements for the minor through a combination of core courses and a wide array of courses offered by many departments in Dedman College and the Meadows School of the Arts. (Courses subject to approval are topics and problems courses that earn credit toward the minor only when offered under specific preapproved titles.)

Requirements for the Minor

Core Course (3 Credit Hours)

- WGST 2322 - Gender: Images and Perspectives

Elective Courses (12 Credit Hours)

Four WGST or approved courses from the following list, with three at the 3000 level and above:

- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3328/WGST 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ARHS 3365 - Race and Gender in Visual Culture
- ARHS 3381 - Gender and Sexuality in the Visual Arts
- CCPA 3341 - Ethnicity, Culture, and Gender: Introduction to Critical Studies in Communication
- CE 8338 - Emancipatory Educational Ministry with Adolescent Girls (Perkins graduate course; instructor approval needed)
- ENGL 1360 - The American Heroine
- ENGL 3344 - Victorian Gender and Sexuality
- ENGL 3364 - Women and the Southwest
- ENGL 3367 - Ethical Implications of Children's Literature
- ENGL 3371/HIST 3357 - Joan of Arc: History, Literature, and Film
- ENGL 3377 - Literature and the Construction of Homosexuality
- ENGL 3379 - Literary and Cultural Contexts of Disability: Gender, Care, and Justice
- ENGL 4330 - Renaissance Writers
- ENGL 4343 - Studies in British Literature in the Age of Revolutions
- FILM 2332 - American Popular Film and Television (topic to be approved by director)
- FILM 2362 - Diversity and American Film: Race, Class, Gender, and Sexuality
- FILM 3310 - Screen Artists (topic to be approved by director)
- FILM 3395 - Topics in Film and Media Studies (topic to be approved by director)
- FREN 4361 - French Decadence
- FREN 4363 - Genre Studies *(formerly FREN 5334 prior to Fall 2019)* (topic to be approved by director)
- FREN 4395 - French and Francophone Women Writers and Society *(formerly FREN 5339 prior to Fall 2019)*
- HIST 1321 - Introductory Topics in American History *(when offered as Marriage in America)*
- HIST 1322 - Introductory Topics in European History *(when offered as Renaissance Queens and Mistresses)*
- HIST 3301/HRTS 3301 - Human Rights: America's Dilemma
- HIST 3310 - Problems in American History (topic to be approved by director)

- HIST 3312 - Women in American History to 1900
- HIST 3316 - History of Sex in America
- HIST 3317/HRTS 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
- HIST 3327 - Women in American History From 1865
- HIST 3329 - Women in Early Modern Europe
- HIST 3330 - Women in Modern European History
- HIST 3348 - American Families: Changing Experiences and Expectations
- HIST 3394 - The New Woman: The Emergence of Modern Womanhood in the U.S., 1890-1930
- HIST 4304 - At the Crossroads: Gender and Sexuality in the Southwest
- PC 8333 - Pastoral Care and Counseling of Women (Perkins graduate course; instructor approval needed)
- PC 8335 - Sexual and Domestic Violence: Theological and Pastoral Concerns (Perkins graduate course; instructor approval needed)
- PHIL 3305 - Philosophy and Gender
- PHIL 3383 - Feminist Philosophy
- PLSC 4344 - Gender in World Politics
- PSYC 3371 - Psychology of Women
- RELI 3374 - Female and Male in Religion and Culture
- RELI 3375 - The Feminine Divine
- RELI 3380 - Women and Religion in America
- RELI 3381 - Religion, Gender, and Economic Development
- SOCI 3330 - Social Construction of Identities
- SOCI 3345 - Construction of Social Identities in the Media
- SOCI 3351 - Sociology of the Family
- SOCI 3371 - Sociology of Gender
- SOCI 4373 - Class, Race, and Gender Inequalities
- SPAN 5336 - Spanish-American Novel (topic to be approved by director)
- ST 8375 - Feminist/Womanist Theologies (Perkins graduate course; instructor approval needed)
- THEA 4381 - Solo Performance (topic to be approved by director)
- THEA 4382 - Studies in Theatre, Drama, and Performance (topic to be approved by director)
- THEA 4383 - Studies in Theatre, Drama, and Performance (topic to be approved by director)
- THEA 4384 - Studies in Theatre, Drama, and Performance (topic to be approved by director)
- WGST 3310/HRTS 3310 - Gender and Human Rights
- WGST 3380 - Human Sexuality
- WGST 4309 - Independent Study
- WGST 4385 - Internship in Women's and Gender Studies
- WGST 6300 - Advanced Feminist Theory
- WL 3328 - French Women Writers
- WL 3363 - Figuring the Feminine
- WL 3383/HRTS 4345 - Women's Rights and Human Rights in Literature by Latin American Women
- WO 8308 - Women and Worship (Perkins' graduate course; instructor approval needed)
- XS 8345 - Faith, Feminism, and Public Policy (Perkins graduate course; instructor approval needed)

Total: 15 Credit Hours

Individualized Studies in Liberal Arts, B.A. - with a focus on Women's and Gender Studies

www.smu.edu/womgenstudies
Josephine Caldwell-Ryan, **Director**

Students may complete a B.A. in individualized studies in the liberal arts with a focus on women's and gender studies. Students wishing to earn distinction must take a directed studies course that requires a research project and paper.

Students who qualify for individualized studies in the liberal arts and who have a strong interest in women's role in culture and society, or in the study of gender and sexuality more generally, may propose a program that focuses on women's and gender studies. The program should expose the student to the diverse meanings of gender and sexuality within and across cultures. The program description and administrative procedures specified for the individualized major in the liberal arts apply. Students must consult with the individualized studies program director in the Dedman College Dean's Office to prepare a plan of study.

The following additional stipulations apply:

1. The student must also consult with the women's and gender studies director, who shall serve as one of the members of the Faculty Supervisory Committee for the student's major.
2. Two additional faculty members who teach courses in the program serve on this committee, which oversees the student's progress and certifies completion of the major.
3. The student's program must include courses in at least four disciplines (not counting WGST courses). At least two courses at the 4000 level and above are strongly recommended.

Many program-approved departmental courses with a subject area in women's and gender studies courses are offered annually and, with a few exceptions, the remainder are available at least every other year. Students should consult with the director about offerings and frequency.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Course (3 Credit Hours)

- WGST 2322 - Gender: Images and Perspectives

Two courses from the following: (6 Credit Hours)

- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives

- HIST 3312 - Women in American History to 1900
  or
- HIST 3327 - Women in American History From 1865

- HIST 3329 - Women in Early Modern Europe
- WGST 6300 - Advanced Feminist Theory

Elective Courses (27 Credit Hours)

Nine relevant **WGST** or program-approved courses (below) at the 3000-level and above:

- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3328/WGST 3328 - Gender Violence: Anthropological Perspectives
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 4386 - The Archaeology of Gender and Sexuality
- ARHS 3381 - Gender and Sexuality in the Visual Arts
- ARHS 3365 - Race and Gender in Visual Culture
- CCPA 3341 - Ethnicity, Culture, and Gender: Introduction to Critical Studies in Communication
- CE 8338 - Emancipatory Educational Ministry with Adolescent Girls (Perkins graduate course; instructor approval needed)
- ENGL 1360 - The American Heroine
- ENGL 3344 - Victorian Gender and Sexuality
- ENGL 3364 - Women and the Southwest
- ENGL 3367 - Ethical Implications of Children's Literature

- ENGL 3371/HIST 3357 - Joan of Arc: History, Literature, and Film
- ENGL 3377 - Literature and the Construction of Homosexuality
- ENGL 3379 - Literary and Cultural Contexts of Disability: Gender, Care, and Justice
- ENGL 4330 - Renaissance Writers
- ENGL 4343 - Studies in British Literature in the Age of Revolutions
- FILM 2332 - American Popular Film and Television (topic to be approved by director)
- FILM 2362 - Diversity and American Film: Race, Class, Gender, and Sexuality
- FILM 3310 - Screen Artists (topic to be approved by director)
- FILM 3395 - Topics in Film and Media Studies (topic to be approved by director)
- FREN 4361 - French Decadence
- FREN 4363 - Genre Studies (topic to be approved by director) *(formerly FREN 5334 prior to Fall 2019)*
- FREN 4395 - French and Francophone Women Writers and Society *(formerly FREN 5339 prior to Fall 2019)*
- HIST 1321 - Introductory Topics in American History (when offered as Marriage in America)
- HIST 1322 - Introductory Topics in European History (when offered as Renaissance Queens and Mistresses)
- HIST 3301/HRTS 3301 - Human Rights: America's Dilemma
- HIST 3310 - Problems in American History (topic to be approved by director)
- HIST 3312 - Women in American History to 1900
- HIST 3316 - History of Sex in America
- HIST 3317/HRTS 3317 - Persecution to Affirmation: Sexual Minorities and Human Rights
- HIST 3327 - Women in American History From 1865
- HIST 3329 - Women in Early Modern Europe
- HIST 3330 - Women in Modern European History
- HIST 3348 - American Families: Changing Experiences and Expectations
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3394 - The New Woman: 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
- JOUR 4360 - Race, Class, and Gender in Media
- PC 8333 - Pastoral Care and Counseling of Women (Perkins graduate course; instructor approval needed)
- PC 8335 - Sexual and Domestic Violence: Theological and Pastoral Concerns (Perkins graduate course; instructor approval needed)
- PHIL 3305 - Philosophy and Gender
- PHIL 3383 - Feminist Philosophy
- PLSC 3370 - Women and Politics
- PLSC 4344 - Gender in World Politics
- PSYC 3371 - Psychology of Women
- RELI 3374 - Female and Male in Religion and Culture
- RELI 3375 - The Feminine Divine
- RELI 3380 - Women and Religion in America
- RELI 3381 - Religion, Gender, and Economic Development
- SOCI 3330 - Social Construction of Identities
- SOCI 3345 - Construction of Social Identities in the Media
- SOCI 3351 - Sociology of the Family
- SOCI 3371 - Sociology of Gender
- SOCI 4373 - Class, Race, and Gender Inequalities
- SPAN 5336 - Spanish-American Novel (topic to be approved by director)
- ST 8375 - Feminist/Womanist Theologies (Perkins graduate course; instructor approval needed)
- THEA 4381 - Solo Performance (topic to be approved by director)
- THEA 4382 - Studies in Theatre, Drama, and Performance (topic to be approved by director)
- THEA 4383 - Studies in Theatre, Drama, and Performance (topic to be approved by director)
- THEA 4384 - Studies in Theatre, Drama, and Performance (topic to be approved by director)

- WGST 3310/HRTS 3310 - Gender and Human Rights
- WGST 3380 - Human Sexuality
- WGST 4385 - Internship in Women's and Gender Studies
- WGST 4309 - Independent Study
- WL 3328 - French Women Writers
- WL 3363 - Figuring the Feminine
- WL 3383/HRTS 4345 - Women's Rights and Human Rights in Literature by Latin American Women
- WO 8308 - Women and Worship (Perkins graduate course; instructor approval needed)
- XS 8345 - Faith, Feminism, and Public Policy (Perkins graduate course; instructor approval needed)

Total for the Major Only: 36 Credit Hours

Women's and Gender Studies Courses

WGST 1395 - Special Topics Abroad in Women's and Gender Studies
Credits: 3
Course offered in SMU-approved international programs. Prior approval by the director is required. A maximum of 3 credit hours may be applied toward the minor in women's and gender studies.

WGST 2322 - Gender: Images and Perspectives
Credits: 3
An interdisciplinary examination of the ways femininity and masculinity have been represented in the past and present, with attention to what is constant and what changes.

WGST 2395 - Special Topics Abroad in Women's and Gender Studies
Credits: 3
Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 3310 - Gender and Human Rights
Credits: 3
Introduction to global women's human rights and other intersections of human rights and gender, such as abuse of children's rights, gender-based violence, health and reproductive rights, and evolving concepts of sexual rights.

WGST 3328 - Gender Violence: Anthropological Perspectives
Credits: 3
This course examines how gender-based violence shapes individual subjectivities and collective experiences, material realities, and psychological states, as well as the impacts of interventions on intimate, interpersonal, local, and global scales.

WGST 3380 - Human Sexuality
Credits: 3
This course explores the biosocial aspects of human sexuality and sex behaviors. A multidisciplinary and cross-cultural perspective will be used to address a wide range of theoretical and pragmatic sexual issues.

WGST 3395 - Special Topics Abroad in Women's and Gender Studies
Credits: 3
Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 4109 - Independent Study
Credits: 1
Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4209 - Independent Study
Credits: 2
Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4309 - Independent Study
Credits: 3
Supervised practicum and/or directed readings on specific problems or themes formulated by the student under faculty guidance. Director approval required.

WGST 4385 - Internship in Women's and Gender Studies
Credits: 3
Offers experience with organizations serving women or addressing women's and gender issues, with volunteer opportunities in the community, or with varied potential careers.

WGST 4395 - Special Topics Abroad in Women's and Gender Studies
Credits: 3
Course offered in SMU-approved international programs. Prior approval by the director is required.

WGST 5310 - Special Topics in Women's and Gender Studies I
Credits: 3
Study of a theme, issue, or topic relevant to the study of women, gender, and/or sexuality. The syllabus and assignments must be approved by a committee consisting of the professor of record, the WGST director, and a faculty member who teaches courses in the WGST program. Prerequisite: Enrollment in the WGST Certificate Program.

Mathematics

www.smu.edu/math

Professor Daniel Reynolds, **Department Chair**

Professors: Alejandro Aceves, Vladimir Ajaev, Wei Cai, Thomas Hagstrom, Amnon Meir, Peter Moore, Daniel Reynolds, Johannes Tausch
Associate Professors: Andrea Barreiro, Thomas Carr, Weihua Geng (Director of Undergraduate Studies), Barry Lee, Scott Norris, Benno Rumpf, Brandilyn Stigler, Sheng Xu, Yunkai Zhou
Assistant Professors: Kathryn Hedrick, Minh Binh Tran
Senior Lecturers: Adriana Aceves, Judy Newell, Carol Seets

General Information

The Department of Mathematics offers B.S. and B.A. degrees in mathematics as well as a minor in mathematics. All mathematics majors, either B.S. or B.A., and minors must earn grades of at least *C*- in all courses taken in fulfillment of the requirements for the mathematics major or minor. MATH 6000-level courses may be taken for either the B.S. or B.A. major by students who have fulfilled the prerequisites and have departmental permission. Transfer credit for MATH 1307, MATH 1309 or MATH 1337 will not be approved after any student matriculates to SMU, regardless of major.

Double Major Options within the B.A. Degree

Modern applied and computational mathematics is highly interdisciplinary, with applications spanning engineering, physical sciences, social sciences, data science, and education. Therefore, a second major in mathematics is an ideal complement to many other majors at SMU. Accordingly, the B.A. degree in mathematics is focused on breadth, and allows considerable flexibility in the courses used to satisfy its requirements. Mathematically-inclined students from other majors are strongly encouraged to read about the various options described in the B.A. catalog entry and contact the departmental adviser with any questions.

Departmental Distinction within the B.S. Degree

Reflecting a focus on depth of mathematical training and a preparation for future research in the mathematical sciences, the B.S. degree in mathematics provides a means for students to graduate with departmental distinction if they meet each of the following requirements:

- maintain a GPA of 3.6 or above in all mathematics courses
- complete 3 hours of MATH 4X99: Undergraduate Research
- complete an honors thesis/project/presentation

Interested students should submit to the undergraduate adviser an initial proposal for a plan of research. The student's final thesis/project/presentation will be submitted to a three-person faculty committee for approval.

Mathematics, B.A.

The B.A. degree is designed for students who seek mathematical training as a part of a broad liberal arts program, with the aim of pursuing careers in other fields such as engineering, business, medicine, teaching, and government. It is particularly attractive when combined with another field as a second major, and to this end, the department allows up to two courses from an outside department with significant mathematical content to count toward the B.A. in mathematics.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics Foundation (15 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3304 - Introduction to Linear Algebra
- MATH 3313 - Ordinary Differential Equations

Computer Science (3 Credit Hours)

One course from the following:

- CS 1340 - Introduction to Computing Concepts *(preferred)*
- CS 1341 - Principles of Computer Science
- CEE 3310/ME 3310 – Computational Methods for Engineering Applications

Statistics (3 Credit Hours)

One course from the following:

- STAT 2331 - Introduction to Statistical Methods
- STAT 4340/CS 4340/EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
- ECE 3360 - Statistical Methods in Electrical and Computer Engineering

Advanced Electives Courses (18 Credit Hours)

Six additional advanced electives at the 3000 level and above, of which:

- At least four must be MATH courses
- At least four must be at the 4000 level and above

Reflecting the highly interdisciplinary nature of modern applied and computational mathematics, the mathematics department allows considerable flexibility in the fulfillment of the "Advanced Electives" requirement of the B.A. degree, with the aim of facilitating the completion of a second major in a related field. Specifically, students may choose their electives from the following lists:

Note that if two courses are chosen from an external department, then both courses must come from the same department. Consult with the mathematics departmental adviser for additional guidance.

Mathematics

- Any MATH course at the 3000 level and above

Physics

- PHYS 4321 - Methods of Theoretical Physics

Economics

- ECO 5350 - Introductory Econometrics
- ECO 5375 - Economic and Business Forecasting

Education

- Students interested in mathematics education and the possibility of taking certain appropriate courses in the Simmons School should contact the mathematics undergraduate adviser.

Civil Engineering

- CEE 5340/7340 - Introduction to Solid Mechanics
- CEE 5361/7361 - Matrix Structural Analysis and Introduction to Finite Element Methods

- CEE 5364/7364 - Introduction to Structural Dynamics

Computer Science
- CS 5324/7324 - Machine Learning in Python
- CS 5331/7331 - Data Mining
- CS 5350/7350 - Algorithm Engineering

Electrical and Computer Engineering
- ECE 5341/7341 - Computational Neuroscience
- ECE 5365/7365 - Adaptive Algorithms for Machine Learning
- ECE 5374/7374 - Digital Image Processing

Operations Research and Engineering Management
- EMIS 5331/7331 - Data Mining
- EMIS 5377/7377 - Statistical Design and Analysis of Experiments

Environmental Engineering
- CEE 5332/7332 - Groundwater Hydrology and Contamination
- CEE 5334/7334 - Fate and Transport of Contaminants
- CEE 5354/7354 - Environmental Engineering Principles and Processes

Mechanical Engineering
- ME 5320/7320 - Intermediate Dynamics
- ME 5325 - Computational Thermal Sciences and Engineering
- ME 5336/7336 - Intermediate Fluid Dynamics
- ME 5340/7340 - Introduction to Solid Mechanics
- ME 5361/7361 - Matrix Structure Analysis
- ME 5364/7364 - Introduction to Structural Dynamics

Total for the Major Only: 39 Credit Hours

Mathematics, B.S.

The B.S. degree provides comprehensive training in modern methods of applied and computational mathematics, and reflects contemporary trends by incorporating mathematical modeling as well as computer science and statistics. This degree is designed for students who are planning careers involving analytical problem solving in industry, laboratories, or academia, and is recommended for any student considering graduate school in mathematical science.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics Foundation (24 Credit Hours)
- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3304 - Introduction to Linear Algebra
- MATH 3311 - Introduction to Proof and Analysis

- MATH 3313 - Ordinary Differential Equations
- MATH 3315 - Introduction to Scientific Computing
- MATH 4338 - Analysis *(offered every fall)*

Computer Science (3 Credit Hours)

One course from the following:

- CS 1340 - Introduction to Computing Concepts *(preferred)*
- CS 1341 - Principles of Computer Science
  (**Note:** Additional coursework in computer science, though not required, is beneficial and strongly recommended.)

Statistics (3 Credit Hours)

One course from the following:

- STAT 3300 - Applied Statistics: Regression
- STAT 3304 - Introduction to Statistical Computing
- STAT 4340/CS 4340/EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
- ECE 3360 - Statistical Methods in Electrical and Computer Engineering

Natural Science (6 Credit Hours)

Two courses from the following:

- BIOL 1301 - Introductory Biology
- BIOL 1302 - Introductory Biology
- CHEM 1303 - General Chemistry
- CHEM 1304 - General Chemistry
- Up to one GEOL 1300-level course
- GEOL 2306 - Earth: History of Rock, Life, and the Environment
- GEOL 2308 - Earth: Plate Tectonics and the Interior
- PHYS 1303 - Introductory Mechanics
- PHYS 1304 - Introductory Electricity and Magnetism

Concentration (9 Credit Hours)

Three courses from one of the following concentrations. With departmental permission, one course from each concentration may be replaced by MATH 4300 - Special Topics Abroad

Pure Mathematics

Required Courses

- MATH 4339 - Functions of a Complex Variable *(offered every spring)*
- MATH 4355 - Groups and Rings *(offered every other spring)*
- MATH 4381 - Introduction to General Topology *(offered every other spring)*

Applied Mathematics

Three courses from the following:

- MATH 4325 - Introduction to Dynamical Systems
- MATH 4334 - Mathematical Modeling and Applications *(offered every fall)*
- MATH 4335 - Mathematical Biology *(offered every spring)*
- MATH 4337 - Boundary Value Problems and Partial Differential Equations

Computational Mathematics

Required Courses

- MATH 4316 - Numerical Methods I
- MATH 4317 - Numerical Methods II

Elective Courses
One course from the following:

- MATH 4315 - Advanced Scientific Computing
- MATH 4370 - Introduction to Parallel Scientific Computing
- MATH 4377 - Mathematics of Machine Learning

Advanced Electives (9 Credit Hours)

Three additional MATH courses at the 3000 level and above. It is recommended that two of these electives be chosen from each of the concentrations outside a student's selected concentration, ideally so as to complete the set (MATH 4315, MATH 4334, MATH 4339). Additionally, with departmental permission, up to three hours of elective credit may be drawn from Undergraduate Research (MATH 4199, MATH 4299, MATH 4399). For further guidance on elective options, consult with the mathematics departmental adviser.

Total for the Major Only: 54 Credit Hours

Mathematics Minor

Requirements for the Minor

The mathematics minor, available to students who are not seeking the B.A. or B.S. in mathematics, consists of 18 credit hours of MATH courses. All courses in the minor must be passed with a grade of *C-* or higher.

- MATH 1309 - Introduction to Calculus for Business and Social Science
  or
- MATH 1337 - Calculus I

- MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- Nine additional credit hours selected from advanced mathematics courses at the 3000 level and above.

Total: 18 Credit Hours

Mathematics Courses

MATH 1303 - Precalculus for Business
Credits: 3
Inequalities, absolute value, graphs, functions, basic analytic geometry, polynomials, logarithms, exponentials, linear equations, and mathematics of finance. This is an online course with an on–campus proctoring requirement for exams. Prerequisite: high school algebra. Intended only for students planning to take MATH 1309. If students have existing credit (transfer or otherwise) for any mathematics course at SMU, they may not enroll in MATH 1303 without departmental permission.

MATH 1304 - Precalculus Mathematics
Credits: 3
Graphs, functions, basic analytic geometry, exponentials, logarithms, trigonometry, and inverse functions. Prerequisite: Three years of high school math at the level of Algebra I and above. Intended only for students planning to take MATH 1337. If students have existing credit (transfer or otherwise) for any mathematics course at SMU, they may not enroll in MATH 1304 without departmental permission.

MATH 1305 - Mathematics for Elementary and Middle School Teachers
Credits: 3
Study of rational number arithmetic, with a focus on explanation through models and representations. Emphasizes

algebra from the viewpoint of the elementary curriculum and problem–solving. Prerequisite or corequisite: EDU 2350 or PSYC 1300.

MATH 1307 - Introduction to Mathematical Sciences
Credits: 3
A survey of practical topics in mathematics including permutations and combinations, probability, elementary statistics, mathematics of finance, and voting methods. Prerequisite: High school algebra. Intended as a terminal course for students in non-quantitative fields, to satisfy the Quantitative Foundations requirement. May not be taken after any course above MATH 1307.

MATH 1309 - Introduction to Calculus for Business and Social Science
Credits: 3
Derivatives and integrals of algebraic, logarithmic, and exponential functions with applications to the time value of money, curve sketching, maximum-minimum problems, and computation of areas. Applications to business and economics. Notes: Any student who may eventually take math beyond first semester calculus should take MATH 1337 instead of this course. Credit not allowed for both MATH 1309 and MATH 1337.) Prerequisite: Placement out of MATH 1303 or a C- or higher in MATH 1303.

MATH 1337 - Calculus I
Credits: 3
Differential and integral calculus for algebraic, trigonometric functions, and other transcendental functions, with applications to curve sketching, velocity, maximum-minimum problems, area and volume. (Credit not allowed for both MATH 1309 and MATH 1337.) Prerequisite: Placement out of MATH 1304 or a C- or higher in MATH 1304.

MATH 1338 - Calculus II
Credits: 3
A continuation of MATH 1337 through differential and integral calculus, areas, techniques of integration, improper integrals, and infinite sequences and series, including Taylor series. Prerequisites: C- or higher in MATH 1337.

MATH 1340 - Consolidated Calculus
Credits: 3
A combined course in Calculus I and II for students with a background in Calculus I. Students receive credit for both this course and MATH 1337 if they receive a C- or higher. Students may not receive credit for both MATH 1338 and MATH 1340. Prerequisite: A score of 3 or higher on the AB or BC Calculus AP exam, or permission of the Mathematics Department.

MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
Credits: 3
Partial differentiation, multiple integrals, parametrization, line and surface integrals. Vector Calculus, including vector fields, divergence, curl, and the divergence and Stokes' theorems. Prerequisites: C– or higher in MATH 1338 or MATH 1340.

MATH 3304 - Introduction to Linear Algebra
Credits: 3
Matrices and linear equations, Gaussian elimination, determinants, rank, geometrical notions, eigenvalue problems, coordinate transformations, norms, inner products, orthogonal projections, and Gram–Schmidt and least squares. Includes computational exercises related to these topics. Prerequisites: C– or higher in MATH 1338 or MATH 1340.

MATH 3308 - Introduction to Discrete Mathematics
Credits: 3
Introduces logic, set theory, graph theory, recurrence relations, and combinatorics. Presents mathematical foundations and applications of these subjects. Credit is not allowed for both CS 2353 and MATH 3308. Prerequisite: C- or higher in MATH 1338 or MATH 1340.

MATH 3311 - Introduction to Proof and Analysis
Credits: 3
An introduction to writing mathematical proofs, including mathematical notation, methods of proof, and strategies for formulating mathematical arguments. Applies proof strategies to basic concepts in elementary real analysis. Prerequisites: C- or higher in MATH 1338 or MATH 1340.

MATH 3313 - Ordinary Differential Equations
Credits: 3
First– and second–order linear equations, including applications to physical and biological sciences. Solution methods including integrating factors, undetermined coefficients, variation of parameters, and Laplace transforms. Computational methods and exercises. Prerequisites: C– or higher in MATH 1338 or MATH 1340.

MATH 3315 - Introduction to Scientific Computing
Credits: 3
An elementary survey course that focuses on a strong grounding in numerical analysis and scientific computing. Topics include convergence, stability and conditioning of numerical methods, root-finding for scalar and vector equations, numerical differentiation and numerical integration. Special attention is given to algorithm derivation and implementation. Students registering for this course must also register for an associated computer laboratory. Prerequisites: C- or better in MATH 1338 or MATH 1340, and in CS 1340 (preferred) or CS 1341. Corequisite: MATH 3304.

MATH 4199 - Undergraduate Research
Credits: 1
Credit for a department-approved research experience, such as the on-campus Undergraduate Research Assistant (URA) program, an off-campus Research Experience for Undergraduates (REU), or certain research-based study-abroad programs. Prerequisite: Departmental approval required.

MATH 4299 - Undergraduate Research
Credits: 2
Credit for a department-approved research experience, such as the on-campus Undergraduate Research Assistant (URA) program, an off-campus Research Experience for Undergraduates (REU), or certain research-based study-abroad programs. Prerequisite: Departmental approval required.

MATH 4300 - Special Topics Abroad
Credits: 3
SMU credit for mathematics courses taken in University-approved programs abroad. Prerequisite: Departmental approval required.

MATH 4315 - Advanced Scientific Computing
Credits: 3
Advanced algorithms central to scientific and engineering computing. Topics include solution of linear systems of equations, functional approximation, initial-value problems, and boundary-value problems. Special attention is given to algorithm derivation and implementation. Prerequisites: C- or higher in MATH 3315 or MATH 3316. Credit not allowed for both MATH 4315 and MATH 5315/MATH 5316.

MATH 4316 - Numerical Methods I
Credits: 3
Covers floating point arithmetic, backward stability analysis, numerical solution of dense and sparse linear systems of equations using direct and basic iterative methods, least-squares problems and eigenvalue problems, elementary and orthogonal matrix transformations, and nonlinear systems of equations. Prerequisites: C- or higher in MATH 3304, MATH 3311, and MATH 4315.

MATH 4317 - Numerical Methods II
Credits: 3
Covers interpolation and approximation of functions, numerical differentiation and integration, basic methods for initial value problems in ordinary differential equations, and basic approximation methods for one-dimensional initial-boundary value problems. Topics focus on algorithm development and the theory underlying each method. Prerequisites: C- or higher in MATH 3313, MATH 3311, and MATH 4315.

MATH 4325 - Introduction to Dynamical Systems
Credits: 3
Systems of ordinary differential equations, emphasizing models describing the physical, biological, and social sciences. Linear stability, phase plane, limit cycles, bifurcations, chaos. Includes computational methods. Prerequisites: C- or higher in MATH 3304 or MATH 3353; C- or higher in MATH 3313 or MATH 2343.

MATH 4334 - Mathematical Modeling and Applications
Credits: 3
A survey of methods used to understand real-world systems using mathematics. Covers aspects of the acquisition, characteristics, and visualization of data; simple methods of identifying relationships including regression, scaling arguments, and dimensional analysis; the formulation of ODE and PDE models using conservation laws and the continuum hypothesis; and model testing and evaluation. Applications vary, but generally span the physical, biological, and social sciences. Prerequisites: C- or higher in MATH 3313 and MATH 3315. MATH 3302 and STAT 2331/STAT 4340/CS 4340/EMIS 3340/ECE 3360 are also recommended. Students who have not taken MATH 3315 may petition the instructor to enroll in the course if they have already taken STAT 2331/STAT 4340/CS 4340/EMIS 3340/ECE 3360.

MATH 4335 - Mathematical Biology
Credits: 3
Introduction of mathematical models of biological systems. Also, population dynamics, infectious diseases, population genetics, and molecular and cellular biology. Prerequisites: C- or higher in MATH 3313, MATH 3304.

MATH 4337 - Boundary Value Problems and Partial Differential Equations
Credits: 3
Boundary value problems including Sturm-Liouville theory, eigenfunction expansion/transform methods. Elementary partial differential equations, including the homogeneous and non-homogeneous heat and wave equations; solution by separation and transform methods. Method of Characteristics. Prerequisites: C- or higher in MATH 3304 or MATH 3353, and C- or higher in MATH 3313 or MATH 2343.

MATH 4338 - Analysis
Credits: 3
Sequences and series of real numbers and functions, properties of continuous functions, differentiation and integration with some attention paid to higher dimensions. Prerequisite: C- or higher in MATH 3308 or MATH 3311, or permission of instructor.

MATH 4339 - Functions of a Complex Variable
Credits: 3
Complex numbers, analytic functions, mapping by elementary functions, and complex integration. Cauchy-Goursat theorem and Cauchy integral formulas. Taylor and Laurent series, residues, and evaluation of improper integrals. Applications of conformal mapping and analytic functions. Prerequisites: C- or higher in MATH 3302 or MATH 2339. Recommended but not required: MATH 3311.

MATH 4351 - Theory of Numbers
Credits: 3
Classical number theory, including divisibility, congruencies, quadratic reciprocity, Diophantine equations, and number theoretic functions. Prerequisite: C- or higher in MATH 3308 or MATH 3311, or permission of instructor.

MATH 4355 - Groups and Rings
Credits: 3
Basic properties of groups, rings and fields, homomorphisms, normal subgroups, integral domains, ideals, algebraic extension fields, geometric constructions. Prerequisite: C- or higher in MATH 3311 or MATH 3308, or permission of instructor.

MATH 4370 - Introduction to Parallel Scientific Computing
Credits: 3
An introduction to parallel computing in the context of scientific computation. Prerequisites: C- or higher in MATH 3315 and CS 2341, or permission of instructor.

MATH 4377 - Mathematics of Machine Learning
Credits: 3
Mathematics and algorithms of basic machine learning methods, emphasizing those for regression, classification, and data analysis. Linear models of regression and classification, basis expansion, regularization, support vector machines, deep neural networks and stochastic gradient descent, principal component analysis, and clustering algorithms. Prerequisites: C- or higher in each of the following: MATH 1338 or MATH 1340; MATH 3304; DS 1301, CS 1340, CS 1341, or CS 1342; and DS 2302, STAT 2331, STAT 3300, or STAT 4340/CS 4340/EMIS 3340/ECE 3360.

MATH 4381 - Introduction to General Topology
Credits: 3
Elementary topology of the line and plane, metric spaces, and general topological spaces. Also, continuity of mappings, connectedness, compactness, completeness, and fixed-point theorems. Prerequisite: C- or higher in MATH 3308 or MATH 3311, or permission of instructor.

MATH 4390 - Independent Study
Credits: 3
Independent study of a selected topic in mathematics. By arrangement with faculty sponsor and with departmental approval.

MATH 4399 - Undergraduate Research
Credits: 3
Credit for a department-approved research experience, such as the on-campus Undergraduate Research Assistant (URA) program, an off-campus Research Experience for Undergraduates (REU), or certain research-based study-abroad programs. Prerequisite: Departmental approval required.

Philosophy

www.smu.edu/philosophy

Professor Robert Howell, **Department Chair**

Professors: Eric Barnes, Doug Ehring, Robert Howell
Associate Professors: Philippe Chuard, Justin Fisher (Director of Cognitive Science Minor), Alida Liberman, Matthew Lockard (Co-Director of Undergraduate Studies), Jennifer Matey, Luke Robinson (Director of Ethics Minor), Brad Thompson (Co-Director of Undergraduate Studies)
Senior Lecturers: Kenneth Daley, Stephen Hiltz
Lecturer: Joshua Crabill

General Information

The Philosophy Department is well known for strength in ethics, moral psychology, metaphysics, epistemology, philosophy of mind and philosophy of science. Students focus on the development of skills in reasoning, their understanding of arguments and viewpoints, the critical evaluation of varied perspectives, and clear written and oral communication. The critical thinking skills developed in the major and minors are of benefit to students in many disciplines and are especially useful as preparation for law school.

The department offers a B.A. in philosophy and minors in philosophy and in ethics. Courses include core areas of philosophy and specialized topics such as animal rights, philosophy of law and philosophy of mind. The department also jointly operates two interdisciplinary minors in cognitive science (with Psychology) and neuroscience (with Biology and Psychology).

Departmental Distinction

Departmental distinction is awarded to philosophy majors graduating with at least a 3.5 GPA in philosophy and who successfully complete a writing project under the guidance of a faculty member.

Philosophy, B.A.

The B.A. degree in philosophy requires 30 credit hours of coursework in philosophy, including at least 21 credit hours in advanced courses (3000-level and above). The 30 hours must include PHIL 1301, PHIL 3351, PHIL 3352; at least one course from the sequence PHIL 3311–PHIL 3329; and at least one course from the sequence PHIL 3370 - PHIL 3389 or PHIL 3363.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (15 Credit Hours)

- PHIL 1301 - Elementary Logic
- PHIL 3351 - History of Western Philosophy (Ancient)
- PHIL 3352 - History of Western Philosophy (Modern)

Metaphysics and Epistemology (3 Credit Hours)

One course from the following:

- PHIL 3312 - Introduction to Philosophy of Language
- PHIL 3313 - Knowledge and Skepticism
- PHIL 3314 - Metaphysics
- PHIL 3315 - Philosophy of Mind
- PHIL 3316 - Minds, Brains, and Robotics

- PHIL 3317 - Philosophy of Perception
- PHIL 3318 - Colors, Sounds, and Other Appearances
- PHIL 3319 - Identity, Persons, and Other Objects
- PHIL 3320 - Causation
- PHIL 3321 - Time, Space, and Metaphysics
- PHIL 3322 - Pleasure and Pain
- PHIL 3323 - Philosophy of Psychology and Neuroscience
- PHIL 3324 - Consciousness: Theoretical and Empirical Approaches

Value Theory (3 Credit Hours)

One course from the following:

- PHIL 3363 - Aesthetic Experience and Judgment
- PHIL 3371 - Social and Political Philosophy
- PHIL 3372 - Liberty
- PHIL 3373 - Philosophy of Criminal Law
- PHIL 3374 - Philosophy of Law
- PHIL 3375 - Topics in Moral Philosophy
- PHIL 3376 - Bioethics
- PHIL 3377 - Animal Rights
- PHIL 3378 - The Good Life: An Inquiry into Individual and Social Ethics
- PHIL 3379 - Environmental Ethics
- PHIL 3380 - Ethics: Morality, Self-Interest, and Justice
- PHIL 3381 - Neuroethics
- PHIL 3382 - The Ethics of Sport
- PHIL 3383 - Feminist Philosophy

Elective Courses (15 Credit Hours)

Five courses from the following:

- PHIL courses, with at least three courses at the 3000-level and above.
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida

Total for the Major Only: 30 Credit Hours

Ethics Minor

Offered by the Philosophy Department, the minor in ethics provides students with opportunities to explore questions of value, justice, responsibility and the moral life, while simultaneously mastering philosophical approaches to ethics that are foundational for discussions of ethical issues in other fields, such as law, economics and public policy. The minor is designed to equip students with a strong foundation in ethics, along with transferable skills in reasoning, analysis, and the critical evaluation of complex issues, positions and arguments.

Students take five courses for the minor. Courses are offered in ethical and political theory, in applied and practical ethics, and on specialized topics such as bioethics, liberty and philosophy of law.

By double counting certain courses, the minor in ethics is easily combined with complementary majors and minors, including environmental studies, human rights, law and legal reasoning, political science, public policy, religious studies, and women's and gender studies.

Requirements for the Minor

The minor in ethics requires at least 15 credit hours of coursework, including at least four courses (12 hours) in philosophical ethics. Three of the required courses in philosophical ethics (9 hours) must come from the department's advanced sequence in ethics (PHIL 3370–PHIL 3389), and the fourth (3 hours) must come from that same sequence or from the department's introductory sequence in ethics (PHIL 1316–PHIL 1325). Upon petition to the chair of the department, other philosophy courses — including PHIL 3310 and PHIL 4393 — may fulfill the

foregoing requirements provided their topics and contents are suitable. The remaining course (3 hours) must come from the department's ethics courses, the department's non-ethics courses, or a list of approved courses offered by other departments.

It is recommended that each student minoring in ethics take one course from the department's introductory sequence in ethics (PHIL 1316–1325), along with at least one course in ethical or political theory (PHIL 1316, PHIL 3371, PHIL 3372, PHIL 3380).

Core Courses (12 Credit Hours)

Four courses from the following list, with at least 9 credit hours (three courses) at the 3000-level or above.

- PHIL 1316 - Introduction to Ethics
- PHIL 1317 - Business Ethics
- PHIL 1318 - Contemporary Moral Problems
- PHIL 1319 - Technology, Society, and Value
- PHIL 3371 - Social and Political Philosophy
- PHIL 3372 - Liberty
- PHIL 3373 - Philosophy of Criminal Law
- PHIL 3374 - Philosophy of Law
- PHIL 3375 - Topics in Moral Philosophy
- PHIL 3376 - Bioethics
- PHIL 3377 - Animal Rights
- PHIL 3378 - The Good Life: An Inquiry into Individual and Social Ethics
- PHIL 3379 - Environmental Ethics
- PHIL 3380 - Ethics: Morality, Self-Interest, and Justice
- PHIL 3381 - Neuroethics
- PHIL 3382 - The Ethics of Sport
- PHIL 3383 - Feminist Philosophy

Elective Course (3 Credit Hours)

One additional core course from the list above, or one additional PHIL course, or one course from the following list:

- ADV 2302 - Advertising, Society, and Ethics
- ANTH 2380 - Cultures at Risk: Human Rights and Heritage Today
- CCPA 2328 - Communication Ethics
- HRTS 3301/HIST 3301 - Human Rights: America's Dilemma
- JOUR 2302 - Ethics of Convergent Media
- PLSC 4371 - Ethics and the Law
- RELI 3309 - Bioethics From a Christian Perspective
- RELI 3389 - Living From the Heart (Of It All): An Exploration of Mystical/Spiritual Ethics
- SOCI 4373 - Class, Race, and Gender Inequalities

Total: 15 Credit Hours

Notes:

- Students majoring in philosophy may not minor in ethics.
- Students may not count both PHIL 1318 and PLSC 4371 toward the minor in ethics.

Philosophy Minor

The minor in philosophy requires 15 credit hours of coursework in philosophy, including at least 9 credit hours in advanced courses (3000-level and above). The 15 hours must include either PHIL 3351 or PHIL 3352. It is recommended that each student minoring in philosophy take one of the department's general introductory courses.

Requirements for the Minor

Core Course (3 Credit Hours)

- PHIL 3351 - History of Western Philosophy (Ancient)
  or
- PHIL 3352 - History of Western Philosophy (Modern)

Elective Courses (12 Credit Hours)

Four courses from the following:

- PHIL courses, with at least two courses at the 3000-level and above.
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida

Total: 15 Credit Hours

Philosophy Courses

PHIL 1300 - Introduction to Critical Thinking
Credits: 3
Learning to analyze, evaluate, and present information in order to better assess one's own beliefs and to persuade others more effectively.

PHIL 1301 - Elementary Logic
Credits: 3
An introductory course in symbolic logic. Logic provides a means for determining whether the purported conclusion of an argument really does follow from the premises. In symbolic logic, mechanical procedures are developed for determining whether a given argument is valid. The techniques and skills acquired through logic have important applications not only within other academic areas such as the sciences and humanities, but may be of use within various professional areas, including law. Counts towards the cognitive science minor.

PHIL 1305 - Introduction to Philosophy
Credits: 3
A general introduction to the central questions of philosophy. We will discuss topics from such areas as the theory of knowledge, philosophy of religion, metaphysics, philosophy of mind, ethics, and political philosophy. Typical questions might include: Can we know the world outside our minds? Is it rational to believe in a God who allows evil to exist? Do the laws of physics allow for human freedom? Is morality more than a matter of opinion? Can there be unequal wealth in a just society? Readings will include classical authors such as Plato, Descartes, Locke, Hume, and Mill, as well as contemporary philosophers. The focus of the course will be on arguments for and against proposed solutions to key problems of philosophy.

PHIL 1306 - Introduction to Philosophy: Minds, Machines, and Persons
Credits: 3
A focused introduction to the central questions of philosophy, with an emphasis on the mind and the self. Typical questions might include the following: Does the soul exist? Is the mind the same thing as the brain? Can animals feel pain? Can they think? Can a computer think? Might the mind be a computer? What is consciousness? Can people understand experiences radically different from their own? What is the self? Can one survive the death of the body? The focus of the course is on arguments for and against proposed solutions to philosophical problems concerning mind, machines, and persons. Counts towards the cognitive science minor.

PHIL 1316 - Introduction to Ethics
Credits: 3
Introduces philosophical ethics focusing on questions in ethical theory. Topics vary, but the following are representative. What makes our lives good or bad? What makes our actions morally right or morally wrong? Is there a real, objective difference between good and bad, right and wrong? Why be moral? Focuses on arguments for and against major positions on issues such as these.

PHIL 1317 - Business Ethics
Credits: 3
Examines the moral dimensions of actions and practices in the business world. Students explore ethical theories and standards of evaluation for actions and practices generally, and discuss how these theories and standards apply to a variety of issues in business. Topics vary, but the following are representative: advertising, capitalism vs. socialism, corporate culture, product quality and safety, the responsibilities of corporations to the societies that sustain them, the use of animals in product testing, and working conditions and compensation.

PHIL 1318 - Contemporary Moral Problems
Credits: 3
An introduction to philosophical ethics focusing on questions in applied ethics. Students begin by exploring ethical theories and philosophical methods. The majority of the course is devoted to applying those theories and methods to some of the most controversial and pressing issues confronting contemporary society. Topics vary, but the following are representative: abortion, animal rights, affirmative action, capital punishment, economic justice, euthanasia, sexuality, war and terrorism, and world hunger. Class discussion is an important component of the course, as is reading and (in some sections) writing argumentative essays about these issues.

PHIL 1319 - Technology, Society, and Value
Credits: 3
Advances in technology are raising many ethical issues that require serious considerations. We will discuss issues surrounding such technologies and how they affect the views of warfare, privacy, human enhancement, and artificial intelligence.

PHIL 3161 - Philosophy of Science
Credits: 1
Covers fundamental issues in the philosophy of science, including the nature of scientific theories, the distinction between science and pseudoscience, the scientific method, the logic of theory confirmation, and the realist versus antirealist debate. Corequisite: CHEM 1304.

PHIL 3301 - Intermediate Logic
Credits: 3
Introduces the formal theory of the logical systems students have already learned to use: sentential logic and predicate logic. Students learn to prove the completeness and soundness of both of these systems. Also, simple nonstandard logical systems such as modal, epistemic, or deontic logic, if time permits. Prerequisite: PHIL 1301 or its equivalent. Counts towards the cognitive science minor.

PHIL 3302 - Problems in the Philosophy of Religion
Credits: 3
The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God, and immortality.

PHIL 3305 - Philosophy and Gender
Credits: 3
Considers whether or not there are differences between the sexes and whether or not Western science, philosophy, and ethics have been dominated by male thinking. Also, current issues such as pornography, censorship, rape, and reproductive technologies. Students examine writings by feminist philosophers and their critics.

PHIL 3310 - Advanced Topics in Philosophy
Credits: 3
A topics offering that seeks to take advantage of the wide variety of issues that can be fruitfully explored in a course in advanced philosophy. May be repeated for credit. Recently offered topics include: the philosophy of human emotions; the metaphysics of necessity; meaning and methodology.

PHIL 3312 - Introduction to Philosophy of Language
Credits: 3
An introduction to topics in the philosophy of language, especially reference, definite description, and the interpretation of intensional contexts. Prerequisite: PHIL 1301. Counts towards the cognitive science minor.

PHIL 3313 - Knowledge and Skepticism
Credits: 3
A systematic treatment of such topics as skepticism, analyses of factual knowledge, theories of epistemic justification, foundational versus coherence theories of knowledge, and the relationship between psychology and a philosophical account of knowledge.

PHIL 3314 - Metaphysics
Credits: 3
Some of the most central and traditional questions in philosophy are metaphysical: Do objects really exist? What are they? And what are persons: do we persist over time, can we survive change? Are we really free, or are all our actions determined by the laws of nature? Are our minds simply reducible to our brains? Are there such things as souls? How about the properties of things - objects have sizes and shapes, we have nationalities and genders, but what are these properties exactly? Can we know anything about the ultimate structure of reality? Does it include God? Is science the only way to discover what really exists and how things really are? This course offers a systematic approach to these questions and others.

PHIL 3315 - Philosophy of Mind
Credits: 3
A systematic treatment of the nature of consciousness, self, and person. Counts towards the cognitive science or neuroscience minor.

PHIL 3316 - Minds, Brains, and Robotics
Credits: 3
Topics may include neural networks, artificial intelligence, perception and action, consciousness, robotics, dynamical systems, embodied cognition, game theory, and the evolution of cognition. Prerequisites: Two courses in fields related to cognitive science (philosophy, computer science, computer engineering, psychology, linguistics, biology, or anthropology). Counts towards the cognitive science or neuroscience minor.

PHIL 3317 - Philosophy of Perception
Credits: 3
We see penguins (and other things), we hear trumpets (and other things), we smell fresh bread (and other things), taste mustard, touch water, etc. Perceptual experiences like these raise many central philosophical questions. Do they represent reality in an accurate way? Can they provide knowledge about our environment? Is there a special kind of consciousness such experiences instantiate, and if so what is it? This course addresses a host of questions about the nature of our perceptual experiences and surveys some of the answers, including some of the more significant results obtain by the cognitive neurosciences. Counts towards the cognitive science minor.

PHIL 3318 - Colors, Sounds, and Other Appearances
Credits: 3
Objects look colored, they produce sounds, smells, and some have a taste. But what are these sensory appearances - colors, sounds, tastes, smells, etc. - exactly? Do they even exist or are they mere appearances produced by our brains? Could they be identified or reduced to objective physical features of the objects we perceive, or are they somehow mere projections of our minds? What can science and philosophy tell us about colors, sounds, and the like? This course offers a systematic analysis of some of these appearances, of their nature, their objectivity, and what can best explain them. Counts towards the cognitive science minor.

PHIL 3319 - Identity, Persons, and Other Objects
Credits: 3
Persons and individuals like you and me raise a host of central philosophical questions. You are, we assume, the

very same person you were three minutes ago, distinct from all the other individuals on the surface of the planet. But how is that so, and how it is even possible? Persons, just like tables, chairs, and other particular objects, seem to retain their identity through time despite the changes they go through: they persist and survive change. Does this mean each particular person (and each particular table) has a very specific essence it keeps throughout its life? What exactly constitutes a person? And what do we mean by identity anyway, in this context? And what of the powerful arguments suggesting that persons (and other objects) cease to exist whenever they go through the most trivial change, or that the existence of persons and other objects is a mere illusion? This course will consist in a systematic survey of some of the central answers to some of these and other related questions.

PHIL 3320 - Causation
Credits: 3
Intensive investigation of the metaphysics of causation. Examines regularity theory, counterfactual theory, probabilistic theory, and process theories.

PHIL 3321 - Time, Space, and Metaphysics
Credits: 3
Does time pass? Do the past and the future exist? Is space a thing? What are the laws of nature? This course introduces some central issues in the metaphysics of science.

PHIL 3322 - Pleasure and Pain
Credits: 3
Explores the nature of pleasure and pain, their relationships to other mental states, and their significance and value. Do pleasures and pains have intentional content? If so, what do they represent? How are pleasure and pain related to motivation? What can we learn from neuroscience concerning pleasure and pain? Are pleasure and pain essential to what makes life worth living? A previous philosophy course is recommended, but not required. Counts towards the cognitive science minor.

PHIL 3323 - Philosophy of Psychology and Neuroscience
Credits: 3
What sorts of explanations do cognitive psychologists and neuroscientists seek about cognitive functions and the nature of our minds? What assumptions, and what evidence, do such explanations rest upon? Counts towards the cognitive science or neuroscience minor.

PHIL 3324 - Consciousness: Theoretical and Empirical Approaches
Credits: 3
How do recent empirical findings in cognitive psychology and neuroscience advance our understanding of the nature of consciousness? What philosophical issues do such findings and their explanations raise? Counts towards the cognitive science minor.

PHIL 3333 - Topics in Philosophy
Credits: 3
May be repeated for credit.

PHIL 3351 - History of Western Philosophy (Ancient)
Credits: 3
A study of the major philosophers from Thales to Plotinus, including Plato and Aristotle. Please note: this course is not offered in the Spring term.

PHIL 3352 - History of Western Philosophy (Modern)
Credits: 3
Survey course in the history of modern philosophy covering the modern period, from Descartes to Hume, including Leibniz, Spinoza, Locke, and Berkeley. Examines many seminal writings in philosophy on such key issues as rationalism and empiricism, the nature of external reality and one's knowledge of it, the existence and nature of God, the relation between mind and body, causation, induction, and the nature of morality and moral action. Satisfies one

part of the history requirement for philosophy majors; may be used to satisfy the history requirement for philosophy minors. Please note: this course is not offered in the Fall term.

PHIL 3353 - 19th-Century Philosophy
Credits: 3
A detailed study of selected major thinkers from the 19th century, such as Kant, Hegel, Kierkegaard, Nietzsche, Schoepenhauer, Fichte, Feuerbach, and Marx.

PHIL 3356 - American Philosophy
Credits: 3
Historical development and contemporary themes in American philosophy. Varying emphasis may be placed on trends (e.g., Native American thought, pragmatism), historical figures (e.g., Dewey, Quine), or influential contemporary figures (e.g., Brandom).

PHIL 3362 - Creativity, Discovery, and Science
Credits: 3
Considers central issues in the history and philosophy of science, with a special emphasis on the nature of creativity and discovery in scientific thought. General questions include the following: What is science, and what is the nature of scientific method? What is the nature of evidence and explanation in science? Addresses in detail the question of how new ideas such as theories and problem solutions are produced and assessed in scientific thinking. Is creativity essentially a random or blind process or is it rule-governed in some way? What is the nature of scientific discovery? Combines literature in the history and philosophy of science together with psychological literature on the nature of creativity to answer these and other questions. No previous coursework in science is required, but some science background equips students to appreciate the relevant issues.

PHIL 3363 - Aesthetic Experience and Judgment
Credits: 3
Attention is devoted to the following questions: What is beauty? Are there any standards or rules concerning what is beautiful? What is art? Why is art an important part of human culture? Students also consider the role of emotion in art, the problem of correct interpretation, and the nature of tragedy.

PHIL 3364 - Philosophy of Biology
Credits: 3
A survey of topics in the philosophy of biology, including evolution versus creationism, fitness, units of selection, adaptationism, biological taxonomy, evolution in humans, cultural evolution, and niche construction.

PHIL 3371 - Social and Political Philosophy
Credits: 3
Explores central questions in social and political philosophy. Topics vary, but the following are representative. What forms of government are most reasonable and morally defensible? What is justice, and how might it be embodied in a system of government? Are there such things as natural rights? What is the basis for saying that we have rights to freedom of speech and religion? What would constitute a just or fair distribution of the benefits and burdens of social cooperation? Do citizens in a modern, democratic state have a moral obligation to obey its laws? When, if ever, is it legitimate for a state to go to war?

PHIL 3372 - Liberty
Credits: 3
Investigates the topics of freedom and autonomy primarily from the standpoint of social and political philosophy. Students explore the nature of freedom and its role in a good society along with the nature of autonomy (self-governance) and its role in a good life. Also, the distinction between negative and positive liberty, the nature of coercion, the republican theory of freedom, the nature of personal autonomy, the value of freedom, and other topics.

PHIL 3373 - Philosophy of Criminal Law
Credits: 3
By what right does society punish some people? What is the correct amount of punishment for a given crime? Why should the law excuse some people who are convicted of criminal acts? We examine the classical philosophical theories of retributivism and utilitarianism, as well as some contemporary writers who try to combine them. Each year the course also focuses on one important issue in the contemporary criminal justice system of the U.S. Recent topics have included the legalization of marijuana, convictions of innocent persons, stop-and-frisk policing, and prosecutorial discretion.

PHIL 3374 - Philosophy of Law
Credits: 3
This course explores some central and interrelated issues in philosophy of law, or jurisprudence, with a particular emphasis on the role that morality plays in our understanding of law and in the interpretation and application of the law. Here are some of the questions we will consider: When and why does the content of law - what the law is - depend on the content of morality - on what is right and wrong, just and unjust, fair and unfair, etc.? When and how does interpreting and applying laws (statutes, precedents, etc.) involve making value judgments, including moral judgments? Does the United States Constitution enact the "original understanding" of freedom of speech, due process of law, equal protection of the laws, and so on? Or does it, instead, direct us to apply our own, perhaps quite different, understandings of these concepts? (The latter view is called "the moral reading" of the Constitution.) Is there a moral obligation to obey the law? When and why is punishing those who break the law morally justified? Satisfies elective requirements in the following majors and minors: philosophy, ethics, human rights, and law and legal reasoning.

PHIL 3375 - Topics in Moral Philosophy
Credits: 3
A topics offering that seeks to take advantage of the wide variety of issues that can be fruitfully explored in a course in moral philosophy. May be repeated for credit. Recently offered topics include the meaning of life, neuroethics, Plato's ethical thought, practical rationality, and procreation & parenthood.

PHIL 3376 - Bioethics
Credits: 3
An examination of ethical questions arising within medical practice, medical research, and the life sciences.

PHIL 3377 - Animal Rights
Credits: 3
Explores the nature of nonhuman animals, their moral status, and the way we treat them. First we will consider questions about the minds of animals. Are animals conscious? Can they think about the future? Are they self-aware? Exploring those questions will prepare us for our second set of topics about the moral status of animals. Do animals have rights like humans do? Do we have moral obligations to animals? Is there a difference between the moral status of animals that fall into different categories (pets, domesticated animals, and wild animals)? Third, we will examine the way animals are used for food, for entertainment, and in biomedical research. What laws already protect animals and what changes are needed?

PHIL 3378 - The Good Life: An Inquiry into Individual and Social Ethics
Credits: 3
Provides skills for reasoning ethically about a good life as an individual and society, drawing on resources from philosophy, theology, and political science.

PHIL 3379 - Environmental Ethics
Credits: 3
Explores society's ethical obligations concerning the natural world. Topical issues like climate change, endangered species, recycling, the population explosion, and wilderness preservation are covered from a variety of philosophical perspectives.

PHIL 3380 - Ethics: Morality, Self-Interest, and Justice
Credits: 3
Explores issues in normative ethical and political theory, with a particular emphasis on morality, self-interest, and justice. Topics vary, but the following are representative. Might enlightened self-interest be the basis of morality? Is a morally right action one that maximizes overall happiness or well-being, or are there moral rights or duties that prohibit the sacrifice of individuals or their interests for the sake of the greater good? Does individual well-being (or self-interest) consist of pleasure and freedom from pain? Do our subjective interests (our desires or preferences) determine what is ultimately best for us, or are there desire-independent goods, such as knowledge or moral virtue? To what extent, if any, does justice permit inequality of income or wealth? Do individuals have "natural" rights that prohibit the state from using certain means (e.g., taxes and transfers) to promote greater social welfare or less economic inequality?

PHIL 3381 - Neuroethics
Credits: 3
Neuroethics concerns the ethical questions raised by the brain sciences. Is neuroenhancement morally problematic? Should the use of brain scans be limited? What does neuroscience tell us about ethical judgment?

PHIL 3382 - The Ethics of Sport
Credits: 3
Explores the nature and value of sport and ethical issues that arise for athletes, spectators, and others involved in the practice of sport.

PHIL 3383 - Feminist Philosophy
Credits: 3
Explores the distinctive concepts, methods, tools, and topics for analysis that feminist thinkers bring to bear on traditional philosophical topics, including metaphysics, epistemology, and ethics.

PHIL 4393 - Independent Study
Credits: 3
Writing, research, and instructed paper on a specialized topic decided by the instructor and the student.

Physics

www.smu.edu/physics

Professor: Stephen Sekula**, Department Chair**

Professors: Thomas Coan, Jodi Cooley (Director of Undergraduate Biophysical Sciences Program), Robert Kehoe, Pavel Nadolsky, Fred Olness, Stephen Sekula, Ryszard Stroynowski, Jingbo Ye
Associate Professor: Roberto Vega
Assistant Professors: Allison McCarn Deiana, Joel Meyers, Krista Lynne Smith
Senior Lecturers: Simon Dalley (Director of Undergraduate Studies), Randall Scalise
Lecturer: Durdana Balakishiyeva
Research Professors: Datao Gong, Tiankuan Liu
Research Assistant Professors: Katharine Leney, Chonghan Liu

General Information

The Physics Department offers a program consisting of courses in classical and modern physics, and research studies in both experimental and theoretical particle physics as well as in dark matter searches and astrophysics. The research activities of the faculty focus primarily in high energy, elementary particle physics and astrophysics. The advanced classes are small, so there are many opportunities for students to work closely with Physics Department faculty, particularly in the advanced laboratories where students become familiar with state-of-the-art equipment. Undergraduate physics majors are strongly encouraged to participate in research activities. A majority of majors go on to pursue advanced degrees upon graduation from SMU.

Departmental Distinction

A physics major achieving a B.S. degree may graduate with departmental distinction by successfully completing a special program of study in addition to the requirements stated below, while maintaining a minimum GPA of 3.500. The special program consists of independent reading, research and senior thesis under the direction of a departmental faculty member. The student must apply to the department for this designation during his or her junior year. The student will enroll in PHYS 4390 or PHYS 4399 during the program, and a senior thesis is to be written and presented to the faculty.

Physics, B.A.

The B.A. degree program in physics is appropriate for students who wish to combine a physics curriculum with a broad liberal arts program with the intention of pursuing careers such as medicine, law, education, information technology, business and government.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Physics (31 Credit Hours)

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or

- PHYS 1308 - General Physics II

- PHYS 3305 - Introduction to Modern Physics
- PHYS 3344 - Classical Mechanics
- PHYS 4311 - Laboratory Physics
- PHYS 4392 - Introduction to Electromagnetic Theory
- PHYS 5382 - Introduction to Quantum Mechanics
- Eight additional credit hours of advanced physics electives at the 3000 level and above or in related fields with departmental permission

Mathematics (15 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3304 - Introduction to Linear Algebra
- MATH 3313 - Ordinary Differential Equations

Total for the Major Only: 46 Credit Hours

Physics, B.S.

The B.S. degree program in physics is designed for students who plan careers in physics in industry, research laboratories or academia. Students planning to pursue graduate studies are encouraged to complete more than the minimum 41 credit hours in physics and 15 credit hours in mathematics.

The B.S. degree program in physics with a specialization in cosmology and astrophysics is designed for students who plan careers or postgraduate studies in astronomy or astrophysics. Students planning to pursue graduate studies are encouraged to complete more than the minimum 41 credit hours in physics and 15 credit hours in mathematics.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Physics (41 Credit Hours)

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

- PHYS 3305 - Introduction to Modern Physics
- PHYS 3340 - Computational Physics
- PHYS 3344 - Classical Mechanics
- PHYS 3374 - Thermodynamics and Statistical Mechanics

- PHYS 4311 - Laboratory Physics
- PHYS 4321 - Methods of Theoretical Physics
- PHYS 4392 - Introduction to Electromagnetic Theory
- PHYS 5382 - Introduction to Quantum Mechanics
- PHYS 5383 - Advanced Quantum Mechanics
- Six additional credit hours of advanced physics electives at the 3000 level and above or in related fields with departmental permission

Cosmology and Astrophysics Specialization (9 Credit Hours)

For students specializing in cosmology and astrophysics, these three courses are taken instead of PHYS 5383 and the six additional credit hours of advanced physics, listed above.

- PHYS 4368 - Foundations of Modern Cosmology
- PHYS 4371 - Stellar Structure and Evolution
- PHYS 4372 - Galactic Structure, Dynamics and Evolution

Computer Science and Engineering (3 Credit Hours)

- CS 1341 - Principles of Computer Science
  or
- CS 1342 - Programming Concepts

Mathematics (15 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3304 - Introduction to Linear Algebra
- MATH 3313 - Ordinary Differential Equations

Total for the Major Only: 59 Credit Hours

Physics Minor

A minor in physics is appropriate for anyone interested in physics and particularly for majors in the other natural sciences, mathematics, and engineering.

Requirements for the Minor

- PHYS 1105 - Mechanics Laboratory
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I

- PHYS 1304 - Introductory Electricity and Magnetism
  or
- PHYS 1308 - General Physics II

- Nine additional credit hours of advanced physics electives at the 3000 level and above

Total: 17 Credit Hours

Physics Courses

PHYS 1010 - Honors Introductory Physics
Credits: 0
Applications of concepts taught in PHYS 1303, PHYS 1304, PHYS 1307, and PHYS 1308 in modern science and technology. Zero–credit course leading to the Honors designation on transcript. Corequisite: PHYS 1303, PHYS 1304, PHYS 1307, or PHYS 1308.

PHYS 1100 - Special Topics Abroad
Credits: 1
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1105 - Mechanics Laboratory
Credits: 1
One 3-hour laboratory period per week. Taken with PHYS 1303, PHYS 1307 if 8 hours of credit, including laboratory, are needed.

PHYS 1106 - Electricity and Magnetism Laboratory
Credits: 1
One 3-hour laboratory period per week. Taken with PHYS 1304, PHYS 1308 if 8 hours of credit, including laboratory, are needed. Prerequisite: PHYS 1105 or self-test.

PHYS 1200 - Special Topics Abroad
Credits: 2
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1300 - Special Topics Abroad
Credits: 3
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 1301 - The Ideas of Modern Physics
Credits: 3
Presents cosmology, relativity, quantum mechanics, and particle physics in an essentially descriptive, nonmathematical framework accessible to all SMU students.

PHYS 1303 - Introductory Mechanics
Credits: 3
For science and engineering majors. Covers vector kinematics, Newtonian mechanics, oscillations, gravitation, rotational motion. Prerequisite or corequisite: MATH 1337 or MATH 1340.

PHYS 1304 - Introductory Electricity and Magnetism
Credits: 3
For science and engineering majors. Covers electricity, magnetism, electromagnetic radiation, optics. Prerequisite: PHYS 1303 or PHYS 1307. Prerequisite or corequisite: MATH 1338 or MATH 1340.

PHYS 1307 - General Physics I
Credits: 3
For life science majors. Covers vector kinematics, Newtonian mechanics, oscillations, rotational motion, waves and fluids. If you require a one-credit laboratory with this course, you must register separately for PHYS 1105. Prerequisite or corequisite: MATH 1337 or MATH 1340.

PHYS 1308 - General Physics II
Credits: 3
For life science majors. Covers electricity, magnetism, electromagnetic radiation, geometrical and physical optics. Students who require a one-credit laboratory with this course must register separately for PHYS 1106. Prerequisites: PHYS 1303 or PHYS 1307, MATH 1337 or MATH 1340.

PHYS 1311 - Elements of Astronomy
Credits: 3
Descriptive survey of astronomy from the sun and planets to the outer galaxies. Associated laboratory provides experience in making measurements and working with real astronomical data. Prerequisite: High school algebra.

PHYS 1320 - Musical Acoustics
Credits: 3
Covers both the acoustics (physical sound properties) and the psycho-acoustics (psychological, perceptual properties) of music. Topics include sound in general, sound of musical instruments (including voice), sound characteristics of rooms, electronic production (synthesis), and reproduction of sound. No prior knowledge of physics is assumed. While this course requires no previous formal training in music theory, it is helpful if students have a basic understanding of musical scales and notation.

PHYS 2100 - Special Topics Abroad
Credits: 1
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 2200 - Special Topics Abroad
Credits: 2
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 2300 - Special Topics Abroad
Credits: 3
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3100 - Special Topics Abroad
Credits: 1
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3200 - Special Topics Abroad
Credits: 2
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3300 - Special Topics Abroad
Credits: 3
Course offered in approved SMU Abroad program. May be repeated for credit under different subtitle.

PHYS 3305 - Introduction to Modern Physics
Credits: 3
For science and engineering majors. Covers special relativity, elements of quantum physics, structure of atoms, molecules and solids, nuclear physics, and elementary particles. Prerequisite: PHYS 1304 or PHYS 1308.

PHYS 3310 - Introduction to Relativity and the Physics of Waves
Credits: 3
One-dimensional harmonic oscillator, coupled oscillators, longitudinal and transverse waves, sound and electromagnetic waves, interference and diffraction, Lorentz transforms and invariants, time dilation, length contraction, equivalence principle, and black holes. Prerequisite: MATH 3302 (formerly MATH 2339 prior to Fall 2017). Prerequisites or corequisites: PHYS 3305, MATH 3313 (formerly MATH 2343 prior to Fall 2017).

PHYS 3320 - Physics of Music
Credits: 3
Covers the acoustics (physical sound properties) of music. Topics include sound in general, sound of musical instruments, acoustics, electronic synthesis, Fourier transforms, interference, diffraction, and resonance. While this course requires no previous formal training in music theory, it is helpful if students have a basic understanding of musical scales and notation. Prerequisites: PHYS 1303, PHYS 1304 or equivalent. Recommended: PHYS 3344.

PHYS 3333 - The Scientific Method (Debunking Pseudoscience)
Credits: 3
Provides students with an understanding of the scientific method sufficient to detect pseudoscience in its many guises: paranormal phenomena, free-energy devices, alternative medicine, creationism, and many others.

PHYS 3340 - Computational Physics
Credits: 3
Introduction to the modeling of physical systems. Emphasis is on algorithm selection and implementation for simulating classical and quantum physics. Prerequisite: PHYS 3305. Prerequisite or corequisite: MATH 3313 (formerly MATH 2343 prior to Fall 2017). Prior programming experience recommended.

PHYS 3344 - Classical Mechanics
Credits: 3
The motion of a particle and of systems of particles, including oscillatory systems, accelerated coordinate systems, central-force motion, rigid body dynamics, gravitation, and Lagrangian mechanics. Prerequisite: PHYS 1303 or PHYS 1307. Prerequisite or corequisite: MATH 3302.

PHYS 3368 - Principles of Astrophysics and Cosmology
Credits: 3
Cosmic distance scales, physics of stars, expansion of the universe, cosmic nucleosynthesis, and other selected topics as appropriate. Prerequisite: PHYS 3305.

PHYS 3374 - Thermodynamics and Statistical Mechanics
Credits: 3
Basic concepts of thermodynamics and statistical mechanics, with emphasis on quantum statistics. Also, the laws of thermodynamics; entropy; and Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac statistics. Prerequisite: PHYS 3305. MATH 3313 recommended.

PHYS 4099 - Undergraduate Research
Credits: 0
For students who hold research fellowships but are not enrolled in any credit hour courses. No tuition. Prerequisite: PHYS 3305 or consent of instructor.

PHYS 4190 - Special Projects in Physics
Credits: 1
Directed study of special topics. For physics majors only. Prerequisites: Junior or senior classification and permission of department.

PHYS 4290 - Special Projects in Physics
Credits: 2
Directed study of special topics. For physics majors only. Prerequisites: Junior or senior classification and permission of department.

PHYS 4311 - Laboratory Physics
Credits: 3
Introduction to experimental physics. Approximately one experiment per week. One 2-hour laboratory period per week. Prerequisites: PHYS 1105, PHYS 1106, PHYS 3305.

PHYS 4321 - Methods of Theoretical Physics
Credits: 3
Matrices, determinants, linear algebra, complex variables, inhomogeneous equations, Sturm-Liouville theory, partial differential equations, special functions, Fourier series and integral transformations, integral equations, calculus of variations, and applications. Prerequisites or corequisites: MATH 3302 (formerly MATH 2339 prior to Fall 2017), MATH 3313 (formerly MATH 2343 prior to Fall 2017).

PHYS 4368 - Foundations of Modern Cosmology
Credits: 3
Principles and concepts of modern cosmology including the geometry of the universe, cosmological models, nucleosynthesis, inflation, dark energy, dark matter, the cosmic microwave background and baryonic acoustic oscillations. Prerequisites: PHYS 3305, MATH 3302, and MATH 3313 or permission of the instructor.

PHYS 4371 - Stellar Structure and Evolution
Credits: 3
Covers all phases of stellar structure and evolution, the terminal states including supernovae, white dwarfs, neutron stars and black holes, and physical processes of energy generation and transport. Prerequisite: PHYS 3305.

PHYS 4372 - Galactic Structure, Dynamics and Evolution
Credits: 3
Covers all phases of galactic structure and evolution. Galactic types and dynamics including topics of active galactic nuclei, supermassive black holes, and star formation in galaxies. Prerequisite: PHYS 3305.

PHYS 4380 - From Quarks to Cosmos
Credits: 3
Principles of elementary particle physics. Review of particles properties, theory, acceleration techniques and detector technologies. Discussion of the particles effects in astrophysics and cosmology. Prerequisite: PHYS 3305 or equivalent. PHYS 5382 is recommended.

PHYS 4390 - Special Projects in Physics
Credits: 3
Directed study of special topics. For physics majors only. Prerequisites: Junior or senior classification and permission of department.

PHYS 4392 - Introduction to Electromagnetic Theory
Credits: 3
Fundamental principles of electrodynamics, including electrostatics, magnetostatics, electric potential, electric and magnetic fields in matter, simple behavior of time-dependent electric and magnetic fields, and Maxwell's equations. Prerequisites: PHYS 1304, MATH 3302 (formerly MATH 2339 prior to Fall 2017), MATH 3313 (formerly MATH 2343 prior to Fall 2017). PHYS 4321 recommended.

PHYS 4399 - Undergraduate Research
Credits: 3
For physics majors. Students participate in physics research with a member of the faculty of the Physics Department. Prerequisite: Instructor's permission.

PHYS 5337 - Introduction to Solid State Physics
Credits: 3
Crystal lattices and the reciprocal lattice, the free-electron model of metals, crystal binding, lattice vibrations-phonons, thermal properties of solids, and energy bands in solids. Prerequisites: PHYS 3305, PHYS 3344.

PHYS 5382 - Introduction to Quantum Mechanics
Credits: 3
An introduction to the principles of quantum mechanics, the Schrodinger equation and solutions for one–dimensional problems, the Dirac formalism, angular momentum and quantum mechanics in three dimensions, the central potential, spin, and additions of spins. Prerequisites: PHYS 3305, and PHYS 4321 or MATH 3304 (formerly MATH 3353 prior to Fall 2017).

PHYS 5383 - Advanced Quantum Mechanics
Credits: 3
Applications and approximation methods in quantum mechanics. Also, applications to laser physics, solid-state physics, molecular physics, and scattering. Prerequisite: PHYS 5382.

PHYS 5395 - Introduction to Elementary Particles
Credits: 3
Modern theories of elementary particles, including relativistic kinematics, Feynman diagrams, quantum electrodynamics, quarks, weak interactions, and gauge theories. Prerequisite: PHYS 5383.

Political Science

www.smu.edu/politicalscience

Associate Professor Joseph Kobylka, **Department Chair**

Professors: James Hollifield, Dennis Ippolito, Calvin Jillson, Michael Lusztig, Luigi Manzetti, Harold Stanley, Stephen Wegren
Associate Professors: Karisa Cloward, Pamela Corley, Joseph Kobylka, Stefano Recchia, Hiroki Takeuchi (Director of Undergraduate Studies), Matthew Wilson
Assistant Professor: Gianna Englert
Lecturer: LaiYee Leong

General Information

The Political Science Department offers a curriculum that addresses political ideas, institutions and processes in such regional settings as Asia, Europe, Latin America and the U.S., and in such problem settings such as international relations, economic and social policies, and constitutional and public law. Students study with nationally visible faculty, have the opportunity to become involved in significant research projects and are eligible for summer or term internships in Washington, D.C.

The department offers a B.A. and a minor in political science, with four available concentrations. Undergraduate courses include introductory courses (at the 1000 level) which survey each of the broad fields of study in the discipline. Advanced courses (at the 3000 and 4000 levels) explore more closely defined topics within each of those fields: 3000-level courses examine relatively broad subjects; 4000-level courses examine more specific topics but are not inherently more demanding than 3000-level courses. Introductory-level preparation or at least sophomore standing is recommended for students undertaking these advanced courses. Independent study courses (at the 4000 level) are offered to majors with sophomore or higher standing; prerequisites for these courses are stated in the course descriptions that follow.

Note: Offerings for internships, independent study, and research and study abroad (PLSC 4102, PLSC 4202, PLSC 4301, PLSC 4302, PLSC 4307, PLSC 4385, PLSC 4401, PLSC 4402, PLSC 4403, PLSC 4404) are available to majors in political science. Students must have departmental approval prior to registering for these courses. Such courses may not be counted toward departmental subfield requirements.

Students must receive at least a *C*- in all classes counting toward the major or minor. No course may be counted more than once toward meeting departmental major or minor requirements. In unusual circumstances, a student may petition, through his or her adviser, to the department chair for exceptions to the above requirements. Only the department chair may grant such a written waiver.

Departmental Distinction

The department offers graduation with distinction to select majors of high academic achievement. Interested students may consult with an appropriate faculty member and apply to the director of undergraduate studies for admission to the distinction track. Eligible students must have completed two introductory departmental courses and 24 hours of departmental credit before applying for candidacy. Criteria for graduating with departmental distinction include the following:

1. A minimum 3.000 overall GPA at graduation.
2. A minimum 3.500 average in courses taken for the political science major.
3. Preparation for a departmental distinction thesis under the supervision of a faculty thesis adviser. The faculty adviser's grade for the thesis must be *A*- or higher. This work will be accomplished by taking PLSC 4307.
4. Passing with distinction an oral examination of at least one hour, conducted by a faculty distinction examination committee, which reviews the candidate's thesis and major curriculum.
5. A minimum 3.500 average in at least two advanced courses related to the topic of the thesis; one of these may, but need not, be a course taken outside the requirements of the political science major.

Eligible students will be admitted to the distinction track upon recommendation of the director of undergraduate studies in consultation with the faculty member who has agreed to chair the distinction committee and oversee the

student's research and writing. The department does not require candidates for distinction to take PLSC 4304, but strongly advises students interested in empirical research to do so.

Students advanced to the distinction track must write a substantial piece of independent and original research (PLSC 4307) and present it to a distinction committee composed of faculty selected by the distinction adviser in consultation with the student. Upon positive recommendation of this committee, the department will award the student graduation with distinction.

Political Science, B.A.

The major in political science requires 33 credit hours (11 courses). At least 18 advanced hours (3000 level and above) must be completed in residence. No coursework counting toward the major may be taken pass/fail. The following additional requirements apply to the 27 advanced hours (3000 level and above):

- A minimum of 15 credit hours of in-class advanced-level courses must be taken on an SMU campus (Dallas or Taos). In-class hours do not include directed studies courses (PLSC 4102, PLSC 4202, PLSC 4302), internships (PLSC 4385) and departmental distinction thesis (PLSC 4307). SMU campus courses do not include transfer courses, Washington Semester Program courses (PLSC 4301, PLSC 4401, PLSC 4402, PLSC 4403, PLSC 4404) and courses taken in SMU-approved study abroad programs.
- A maximum of three credit hours of directed studies courses (PLSC 4102, PLSC 4202, and PLSC 4302) or internships (PLSC 4385) may count toward the major.
- A maximum of 16 credit hours of (preapproved) advanced-level courses in SMU-approved study abroad programs or the Washington Semester Program may be counted toward the major. (These hours will not count toward the required 15 hours of in-class, on-campus, advanced-level courses specified above.)

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Introductory Courses (6 Credit Hours)

Two PLSC courses at the 1000 level from the following:

- PLSC 1320 - Introduction to American Government and Politics
- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1360 - Introduction to Political Theory
- PLSC 1380 - Introduction to International Relations

Advanced Courses (27 Credit Hours)

Nine courses at the 3000 level and above, with at least two courses from two groups and an additional course from a third group:

- American Government and Politics
- Comparative Politics
- Political Theory
- International Relations

Total for the Major Only: 33 Credit Hours

Political Science Minor

The department offers four minor concentrations, detailed below. Each requires 18 credit hours (6 courses), distributed in accordance with the focus of the minor. At least half of the advanced hours (3000 level and above) applied toward a political science minor must be completed through enrollment at SMU. No coursework counting toward the minor may be taken pass/fail. A maximum of six hours of (preapproved) advanced-level courses in SMU-approved study abroad programs may be counted toward the minor.

Requirements for the Minor

Concentration Introductory Courses (3-6 Credit Hours)

One concentration chosen from the following four concentrations:

General:

- PLSC 1320 - Introduction to American Government and Politics

One course from the following:

- PLSC 1340 - Introduction to Comparative Politics
- PLSC 1360 - Introduction to Political Theory
- PLSC 1380 - Introduction to International Relations

American Politics:

- PLSC 1320 - Introduction to American Government and Politics

Comparative and International Studies:

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

Political Thought:

- PLSC 1360 - Introduction to Political Theory

Concentration Advanced Courses (12-15 Credit Hours)

Four to five courses at the 3000 level and above, chosen from the selected concentration:

- General (6 advanced hours in each of two subfields)
- American Government and Politics (15 advanced hours in American Government and Politics)
- Comparative and International Politics (6 advanced hours in Comparative Politics; 6 advanced hours in International Relations)
- Political Theory (15 advanced hours in Political Theory)

Total: 18 Credit Hours

Political Science Courses

For purposes of distribution and concentration, courses are grouped in their broad fields in the listings below, as indicated by the last two digits of their course numbers:

American Government and Politics (20–39)	PLSC 1320, PLSC 3124, PLSC 3224, PLSC 3320, PLSC 3321, PLSC 3322, PLSC 3323, PLSC 3324, PLSC 3325, PLSC 3327, PLSC 3330, PLSC 3331, PLSC 3333, PLSC 3334, PLSC 3335, PLSC 3336, PLSC 3424, PLSC 4320, PLSC 4321, PLSC 4322, PLSC 4323, PLSC 4324, PLSC 4325, PLSC 4326, PLSC 4328, PLSC 4330, PLSC 4331, PLSC 4332, PLSC 4333, PLSC 4334, PLSC 4335, PLSC 4336, PLSC 4337, PLSC 4338, PLSC 4339
Comparative Politics (40–59)	PLSC 1340, PLSC 3144, PLSC 3244, PLSC 3340, PLSC 3341, PLSC 3342, PLSC 3344, PLSC 3345, PLSC 3346, PLSC 3347, PLSC 3348, PLSC 3349, PLSC 3352, PLSC 3358, PLSC 3359, PLSC 3444, PLSC 4340, PLSC 4341, PLSC 4342, PLSC 4344, PLSC 4345, PLSC 4346, PLSC 4348, PLSC 4349, PLSC 4350, PLSC 4353, PLSC 4354, PLSC 4355, PLSC 4356
Political Theory (60–79)	PLSC 1360, PLSC 3164, PLSC 3264, PLSC 3360, PLSC 3361, PLSC 3362, PLSC 3363, PLSC 3364, PLSC 3365, PLSC 3370,

	PLSC 3464, PLSC 4360, PLSC 4363, PLSC 4368, PLSC 4369, PLSC 4370, PLSC 4371, PLSC 4375
International Relations (80–99)	PLSC 1380, PLSC 3184, PLSC 3284, PLSC 3382, PLSC 3383, PLSC 3384, PLSC 3387, PLSC 3389, PLSC 3484, PLSC 4380, PLSC 4381, PLSC 4382, PLSC 4384, PLSC 4386, PLSC 4390, PLSC 4392, PLSC 4393, PLSC 4398, INTL 3381, INTL 4388

PLSC 1320 - Introduction to American Government and Politics
Credits: 3
The organization, functions, and processes of the national government, with particular attention to parties, pressure groups, and other forces that influence its course. Attention is also given to the Texas Constitution.

PLSC 1340 - Introduction to Comparative Politics
Credits: 3
Analyzes and contrasts different patterns of national political development in Western, Marxist-Leninist, and Third World countries. Political dilemmas confronting each type of system will be examined.

PLSC 1360 - Introduction to Political Theory
Credits: 3
Introduces political theory through an examination of classical and modern approaches to the study of politics. Addresses how to become knowledgeable about politics and what to do with that knowledge.

PLSC 1380 - Introduction to International Relations
Credits: 3
A basic survey of the elements of international relations, including the nation-state system, international organizations, international law, diplomacy, foreign policy, and various nonstate actors such as multinational corporations.

PLSC 3124 - Studies Abroad: American Politics and Government
Credits: 1
SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3144 - Studies Abroad: Comparative Politics and Government
Credits: 1
SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3164 - Studies Abroad: Political Theory
Credits: 1
SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3184 - Studies Abroad: International Relations
Credits: 1
SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3224 - Studies Abroad: American Politics and Government
Credits: 2
SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3244 - Studies Abroad: Comparative Politics and Government
Credits: 2
SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3264 - Studies Abroad: Political Theory
Credits: 2
SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3284 - Studies Abroad: International Relations
Credits: 2
SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3320 - Principles of Public Policy
Credits: 3
Public policy is the study of the outcome of the political process. Parties, pressure groups, bureaucracies, and legislative bodies are part of the mix that creates the decisions that govern U.S. domestic social policy, international economic policy, and defense policy. Prerequisites: ECO 1311, PLSC 1320. Recommended: ECO 1312 and PLSC 1340 or PLSC 1380.

PLSC 3321 - Congress and the Legislative Process
Credits: 3
The powers, organization, and rules and procedures of legislatures in the United States. Emphasizes the U.S. Congress: its constitutional responsibilities, committee and staff systems, and legislative procedures in the House and Senate.

PLSC 3322 - The American Presidency
Credits: 3
An evaluation of the office of president in the American political system, with emphasis on the functional and institutional development of the office and presidential leadership in policymaking.

PLSC 3323 - Southern Politics
Credits: 3
Focuses on the South, paying particular attention to partisan competition, the politics of race, redistricting, and voting rights in the 11 Southern states.

PLSC 3324 - Studies Abroad: American Politics and Government
Credits: 3
SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3325 - Introduction to Law
Credits: 3
Provides the student with an understanding of the American legal system, covering such substantive areas of law as torts, contracts, property, civil procedure, and criminal law.

PLSC 3327 - Texas Politics
Credits: 3
This course focuses on government and politics in Texas both by exploring its processes, institutions, and policies and by placing them within the broader context of the U.S. federal system.

PLSC 3330 - Law, Politics, and the Supreme Court
Credits: 3
An introduction to the uniquely political and legal role played by the Supreme Court in elaborating the scope of governmental power and defining individual rights and liberties.

PLSC 3331 - Media and Politics
Credits: 3
Examines how the media influence the American institutional governing process and citizen engagement in democratic practices such acquisition of political knowledge and political decision-making.

PLSC 3333 - Environmental Policy
Credits: 3
Overview of governmental environmental policies designed to provide a foundation for future application and study in the growing environmental field.

PLSC 3334 - Public Opinion and American Politics
Credits: 3
The influence of public opinion on American politics and policymaking. Topics include public opinion and democratic theory, the methods of survey research, the use of the polling industry, and the influence of polls on politicians and policy.

PLSC 3335 - Judicial Process
Credits: 3
Examines the role played by courts in the American system of government. Topics include the generation of disputes, the tools used by the judiciary to resolve disputes, the ways judges are selected and make decisions, and the impact of those decisions on society and government.

PLSC 3336 - Congress, the President, and the Constitution
Credits: 3
An examination of how constitutional interpretation, precedent, and politics affect presidential and congressional powers and the separation of powers with respect to war and foreign affairs, legislation and administration, and budgetary and fiscal policies.

PLSC 3340 - Western European Politics
Credits: 3
The political development of Britain, France, Germany, and Italy. Topics include the emergence of parliament and parties, democratic breakdown and the rise of fascism, modern parties and interest groups, state economic planning, corporatism, and extraparliamentary oppositions.

PLSC 3341 - Introduction to Comparative Law
Credits: 3
An introduction to the comparative study of different legal systems. Topics may include the following: civil law, European Union law, and comparative approaches to individual rights.

PLSC 3342 - Making Democracy Work
Credits: 3
Aims to answer the fundamental question of why democracy thrives in some nations while in others it struggles, and in many more it has not yet taken root.

PLSC 3344 - Studies Abroad: Comparative Politics and Government
Credits: 3
SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3345 - Governments and Politics of the Middle East
Credits: 3
A survey of modern Middle East governments and politics, including historical, ideological, economic, and social influences on their domestic and foreign policies. Also, analysis of emerging political forms, with some emphasis on modernization problems.

PLSC 3346 - Japanese Politics and Society
Credits: 3
A survey of the major political and social trends in Japan, focusing on popular attitudes, political participation, and the government's response.

PLSC 3347 - Governments and Politics of Africa
Credits: 3
The politics of Africa in an international context, emphasizing the problems of race, nationalism, and economic development.

PLSC 3348 - Governments and Politics of Latin America
Credits: 3
The structure, functions, and operations of government in Latin American countries, with emphasis on political practices and institutions.

PLSC 3349 - Politics of Major Latin American Countries
Credits: 3
An introduction to the problems of political development in some of the major countries of Latin America: Argentina, Brazil, Chile, and Mexico.

PLSC 3352 - Chinese Politics
Credits: 3
A survey of Chinese political history since the establishment of the People's Republic of China in 1949 and the major challenges confronting the PRC today, evaluating the positive and negative aspects of China's socialist experiment by using a working knowledge of Chinese politics.

PLSC 3358 - Government and Politics of Russia
Credits: 3
Examines attempts to reform the former Soviet Union since 1985, and analyzes the social and political processes behind the demise of the Soviet system. Emphasis is placed on sources for support of, as well as obstacles to, political, economic, and social reform in post-Communist Russia.

PLSC 3359 - From Communism to Democracy
Credits: 3
The rise and fall of communist regimes and the transition to democracy in Eastern Europe and the former Soviet Union, emphasizing social, economic, and political influences affecting divergent paths to democracy.

PLSC 3360 - Foundations of Political Thought
Credits: 3
Main currents of political thought in their historical settings from Plato to the 17th century, with a critical evaluation of those elements of continuing worth.

PLSC 3361 - Modern Political Thought
Credits: 3
Main currents of political thought in their historical setting from the 17th century to the present.

PLSC 3362 - 20th-Century Political Thought
Credits: 3
Analysis of the political implications of selected responses to the problems of modern mass society.

PLSC 3363 - American Political Thought
Credits: 3
A historical and analytical survey of the thinkers, actors, and main currents of American political thought from the founding of the first European colonies to the present day.

PLSC 3364 - Studies Abroad: Political Theory
Credits: 3
SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3365 - Communism and Post-Communism
Credits: 3
Theoretical foundations of communism and its variant forms in practice, explanations for the collapse of Eastern European communist systems, and possible futures of communism.

PLSC 3370 - Women and Politics
Credits: 3
An analysis and critique of women's role in politics; theories on women's status and power; and the political activities, ideologies, and programs of feminists, past and present.

PLSC 3382 - International Organizations
Credits: 3
A study of the United Nations and other international agencies in their attempts to deal with the great international political problems of recent times.

PLSC 3383 - The American Foreign Policy Process
Credits: 3
A survey of the contemporary content and the conduct of American foreign policy.

PLSC 3384 - Studies Abroad: International Relations
Credits: 3
SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 3387 - Political Geography
Credits: 3
An examination of topics in international political rivalries within the nation-state system. Major emphasis will be given to the adaptations within that system since 1850 for spatial distributions of physical terrain, populations, economic resources and activities, and political and social divisions.

PLSC 3389 - International Political Economy
Credits: 3
Introduces the study of international political economy, including the indicators of a new interdependence and globalization: the growth in trade, the expansion of foreign direct investment, and the increase in international migration. Also, the ways nation-states respond to globalization and manage international economic relations.

PLSC 3424 - Studies Abroad: American Politics and Government
Credits: 4
SMU credit for political science courses in American politics and government taken in SMU-approved programs abroad.

PLSC 3444 - Studies Abroad: Comparative Politics and Government
Credits: 4
SMU credit for political science courses in comparative politics and government taken in SMU-approved programs abroad.

PLSC 3464 - Studies Abroad: Political Theory
Credits: 4
SMU credit for political science courses in political theory taken in SMU-approved programs abroad.

PLSC 3484 - Studies Abroad: International Relations
Credits: 4
SMU credit for political science courses in international relations taken in SMU-approved programs abroad.

PLSC 4102 - Directed Studies
Credits: 1
Students develop and execute independent reading or research projects under the guidance of a departmental faculty

member, culminating in a written report. Prerequisites: Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

PLSC 4202 - Directed Studies
Credits: 2
Students develop and execute independent reading or research projects under the guidance of a departmental faculty member, culminating in a written report. Prerequisites: Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

PLSC 4301 - Washington Semester Program
Credits: 3
Partnering with American University, the Political Science Department grants course credit to students participating in the "Washington Semester Program." Students can earn up to 16 hours of departmental elective credit. These credits are distributed across four courses - PLSC 4301 or PLSC 4401, and PLSC 4402, PLSC 4403, PLSC 4404 – depending on students' topical concentration. Prerequisites: 1) declared major in political science, public policy, or international studies, and 2) two advanced courses in political science that are relevant to the selected concentration.

PLSC 4302 - Directed Studies
Credits: 3
Students develop and execute independent reading or research projects under the guidance of a departmental faculty member, culminating in a written report. Prerequisites: Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced course preparation.

PLSC 4304 - Political Science Research Methods
Credits: 3
Surveys fundamentals of political science inquiry: causal inference, basic statistical analysis, and core methodologies. Learn how to evaluate scholarly work and design one's own research programs.

PLSC 4307 - Departmental Distinction Thesis
Credits: 3
Candidates for departmental distinction write a thesis under the direction of a departmental faculty member, culminating in an oral examination over the field of the thesis. Prerequisite: Admission to departmental honors candidacy.

PLSC 4320 - Special Studies in American Government and Politics
Credits: 3

PLSC 4321 - Basic Issues in American Democracy
Credits: 3
An analysis of current American public policy issues within a theoretical framework. Examines the foundations of concepts and value orientations within which policy considerations are made.

PLSC 4322 - Latino Politics
Credits: 3
An analysis of contexts, causes, and consequences of Latino political participation. The focus is on Latinos in the Southwest with some attention to other racial and ethnic groups elsewhere in the U.S.

PLSC 4323 - The Politics of Change in America, 1930-2000
Credits: 3
Focuses upon American politics and society from 1930 to the present. Examines the ways America has changed, explains why changes occur, and assesses the consequences of these changes.

PLSC 4324 - Political Dynamics
Credits: 3
Covers the use of political parties in formulating political opinions. Also, pressure groups, propaganda, measurement of mass opinions, and political leadership.

PLSC 4325 - Practical Electoral Politics
Credits: 3
An exploration of techniques of political organization drawing on studies of recent campaigns and examining the political pressures that affect policymaking in government.

PLSC 4326 - Presidential Elections
Credits: 3
Examines presidential nominations and elections. Topics include voter decision-making, media coverage, campaign finance, delegate selection rules, and the Electoral College.

PLSC 4328 - Seminar: American Government and Politics
Credits: 3
An overview of the central questions in the study of American government and politics.

PLSC 4330 - Politics and Film
Credits: 3
Uses films as a vehicle for understanding politics, leadership, and the political process in the U.S. Involves substantial reading and writing. Prerequisite: Political science or film studies major or minor, or permission of instructor.

PLSC 4331 - Law and Film
Credits: 3
American popular culture has demonstrated an enduring fascination with lawyers, the law, and the legal system. This course focuses on how the portrayal of attorneys and the legal system in films shapes public perception of lawyers, creates viewer expectations regarding law and justice, and perhaps influences the conduct of practicing attorneys and judges.

PLSC 4332 - Supreme Court Seminar
Credits: 3
Examines the development of constitutional law and the dynamics of decision making on the Supreme Court, from the perspectives of political science and history, built around a week of research in the Library of Congress.

PLSC 4333 - Policy, Politics, and the Budget
Credits: 3
Examines the federal budget's historical evolution and contemporary significance. Also, the constitutional division of the power of the purse between the legislative and executive branches, presidential-congressional conflicts over control of budget policy, major policy issues relating to the size of the federal budget, spending and tax policy priorities, and deficit and debt problems.

PLSC 4334 - The Politics and Legacies of the Civil Rights Movement
Credits: 3
Examines the politics and legacies of the movement that destroyed the system known as Jim Crow and removed barriers to political participation by African Americans.

PLSC 4335 - Constitutional Law
Credits: 3
Examines the scope of constitutional power in the American governmental system, questions of separation of powers between the branches of the national government, and the federal relationship between the national government and state governments.

PLSC 4336 - Civil Liberties: First Amendment and Privacy
Credits: 3
Examines the place and treatment of expression, religion, and personal autonomy in the American Constitution and in the cases in which the Supreme Court has defined and applied the Constitution.

PLSC 4337 - Civil Rights
Credits: 3
Examines changes wrought in the American system of governance by addition of the 14th Amendment, particularly its Equal Protection Clause, and the ways the Supreme Court has interpreted and applied it over time. Topics of attention include racial discrimination, sex discrimination, and equality in the political process.

PLSC 4338 - Criminal Procedure: 4th Amendment Rights
Credits: 3
Examines the application of the rules regulating police as they investigate crimes and pursue suspects, specifically, the constitutional rules governing search and seizure under the Fourth Amendment.

PLSC 4339 - Criminal Procedure: 5th and 6th Amendment Rights
Credits: 3
Examines the application of the rules regulating police as they investigate crimes and pursue suspects, specifically the Fifth and Sixth Amendments.

PLSC 4340 - Special Studies in Comparative Governments and Politics
Credits: 3

PLSC 4341 - Comparative Rights and Representation
Credits: 3
Examines the tension that exists between rights and democratic representation. Explores judicial activism in making social policy, individual versus collective rights, aboriginal rights, and affirmative action.

PLSC 4342 - Why Nations Revolt
Credits: 3
Survey of the major theories that have been developed to explain the occurrence of revolutions. Examines various revolutions as case studies, including the French, Russian, Nazi, and Chinese revolutions, and at least one peasant revolution in the Third World.

PLSC 4344 - Gender in World Politics
Credits: 3
A survey of classic and contemporary scholarship on women and gender in world politics, focusing on theoretical and empirical explorations of political participation, representation, activism, democracy, war, and human rights.

PLSC 4345 - Islam and Politics
Credits: 3
Examines how Islamic political philosophy, institutions, and actors have evolved in diverse ways as Muslims have responded to challenges from inside and outside their societies both historically and in contemporary times.

PLSC 4346 - Movements and Protests
Credits: 3
Examines why social movements, protests, and revolutions occur, and explores their impact on culture and political processes. Focuses on non-democracies and transitional regimes in Eastern Europe, East Asia, and the Middle East.

PLSC 4348 - Seminar: Comparative Government and Politics
Credits: 3
An overview of the central questions in the study of comparative government and politics.

PLSC 4349 - Public Ethics, Democracy, and Corruption Control in Emerging Markets
Credits: 3
Studies the worldwide endemic of corruption by examining the relationship between supposed ethics standards in government and business, as well as the reality of corruption in different countries and socioeconomic contexts, and ways to curtail such practices.

PLSC 4350 - Game Theory for Political Science
Credits: 3
Politics is about conflict. When there is conflict, there will be strategy. This course examines the complicated strategic interactions within the framework of game theory.

PLSC 4353 - Political Economy of East Asia
Credits: 3
Analysis of the interplay between politics and economics in East Asia, examining in what ways and to what degree the growth experiences of the high-performing economies in East Asia shed light on the prospects for long-term success of reforms currently underway in China.

PLSC 4354 - The Third World and North-South Relations
Credits: 3
An inquiry into problems and theories of political economy of development and dependency in Third World countries.

PLSC 4355 - Comparative Political Economy of Industrialized Democracies
Credits: 3
Examines the nature and workings of the political economies of industrialized democracies of North America, Europe, and the Pacific in comparative perspective. Recommended: Prior completion of one introductory political science and/or economics course.

PLSC 4356 - Latin American Political Economy
Credits: 3
Focuses on the challenges facing public policy in the Latin American region and ways to interpret that region's politics and economic frustrations. Attentive to the basic rules of the Latin American political game and the lack of agreement on them.

PLSC 4360 - Special Studies in Political Theory
Credits: 3

PLSC 4363 - Religion and Politics in the Western Tradition
Credits: 3
Analysis of the relationship between religious faith and civil government in the Western tradition, with a focus on thinkers and controversies from the late Roman Empire to the contemporary United States.

PLSC 4368 - Seminar: Political Theory and Philosophy
Credits: 3
An overview of the central questions in the study of political theory and philosophy.

PLSC 4369 - Republicanism and the Good Society
Credits: 3
Examines the intellectual history of republicanism, its uneasy alliance with liberalism, and its various contemporary manifestations, particularly in the U.S. and Canada.

PLSC 4370 - The Republican Hero
Credits: 3
Explores the evolution of democratic values through the lens of heroism. Identifies a typology of heroism and demonstrates the relevance of heroism from Homer to Batman.

PLSC 4371 - Ethics and the Law
Credits: 3
An introduction to alternative ways of viewing the sources, functions, and uses of law. Attention is given to various understandings of concepts of justice and rights.

PLSC 4375 - The Ethics of Revolution and Civil Disobedience
Credits: 3
A survey of the ethical and philosophical issues surrounding resistance to state power and disobedience of civil law. Examines ancient, medieval, and modern perspectives on when such defiance is justifiable.

PLSC 4380 - Special Studies in International Relations
Credits: 3

PLSC 4381 - National Security Policy
Credits: 3
Examines the changing nature of foreign policy and national security policy issues in a world characterized by growing interdependence and globalization, with particular attention to how technology offers both new opportunities and new dangers. Includes analysis of counterterrorism and homeland security, cyberterrorism, global public health, energy security, nuclear proliferation, and global financial stability. Students learn how to analyze national security policy objectives by using real-world situations and how to determine optimal policy implementation by examining potential actors, potential hurdles to implementation, and sources of funding.

PLSC 4382 - The Politics of Military Force
Credits: 3
Examines use of U.S. military force as a political instrument and its effectiveness as a tool of American foreign policy since the end of the World War II.

PLSC 4384 - American-Russian Relationship
Credits: 3
Surveys American-Russian relations since 1945, with emphasis on how and why the Cold War began. Also, the reasons for the end of the Cold War, the nature of American-Russian relations in the post-Cold War era, and common interests and issues that divide the two nations. Incorporates a negotiation simulation exercise between American and Russian negotiating teams.

PLSC 4385 - Internship in Political Science
Credits: 3
Undergraduate students who arrange for part-time or full-time jobs in government, political parties, interest groups, or other organizations relate these experiences to their academic curriculum through research and writing, under the guidance of a departmental faculty member. This internship course does not fulfill the departmental curricular distribution requirements for the political science major or minor. Prerequisites: Written approval of the instructor and the department chair or a designate, at least sophomore standing, and appropriate introductory and advanced preparation.

PLSC 4386 - International Relations of East Asia
Credits: 3
A survey of the history of diplomacy, war, and economic relations of the East Asian region while introducing the leading theories and debates about regional cooperation in the field of international relations.

PLSC 4390 - NGOs in Global Politics
Credits: 3
Explores the operation of and challenges facing non-governmental organizations in global politics, as they address issues of human and women's rights, human security, democracy, the environment, development, and humanitarian relief.

PLSC 4392 - Strategy
Credits: 3
An introduction to major debates about strategy, or the relationship between military violence and political objectives. Includes close examination of historical cases and current conflicts.

PLSC 4393 - Intelligence and National Security
Credits: 3
Describes the theory and practice of intelligence. Includes a history of U.S. intelligence agencies and efforts to reform them. Discusses the tension between secret intelligence and democratic norms.

PLSC 4398 - Nuclear Weapons and World Politics
Credits: 3
Focuses on the nuclear rivalry between the U.S. and the USSR, and on how this rivalry has transformed the nature and conduct of world politics. Emphasis is placed on theoretical and analytical perspectives, including deterrence theory, bargaining, and game theory. Attention is also given to the implications stemming from both the vertical and horizontal proliferation of nuclear weapons.

PLSC 4401 - Washington Semester Program
Credits: 4
Partnering with American University, the Political Science Department grants course credit to students participating in the "Washington Semester Program." Students can earn up to 16 hours of departmental elective credit. These credits are distributed across four courses - PLSC 4301 or PLSC 4401, and PLSC 4402, PLSC 4403, PLSC 4404 – depending on students' topical concentration. Prerequisites: 1) declared major in political science, public policy, or international studies, and 2) two advanced courses in political science that are relevant to the selected concentration.

PLSC 4402 - Washington Semester Program
Credits: 4
Partnering with American University, the Political Science Department grants course credit to students participating in the "Washington Semester Program." Students can earn up to 16 hours of departmental elective credit. These credits are distributed across four courses - PLSC 4301 or PLSC 4401, and PLSC 4402, PLSC 4403, PLSC 4404 – depending on students' topical concentration. Prerequisites: 1) declared major in political science, public policy, or international studies, and 2) two advanced courses in political science that are relevant to the selected concentration.

PLSC 4403 - Washington Semester Program
Credits: 4
Partnering with American University, the Political Science Department grants course credit to students participating in the "Washington Semester Program." Students can earn up to 16 hours of departmental elective credit. These credits are distributed across four courses - PLSC 4301 or PLSC 4401, and PLSC 4402, PLSC 4403, PLSC 4404 – depending on students' topical concentration. Prerequisites: 1) declared major in political science, public policy, or international studies, and 2) two advanced courses in political science that are relevant to the selected concentration.

PLSC 4404 - Washington Semester Program
Credits: 4
Partnering with American University, the Political Science Department grants course credit to students participating in the "Washington Semester Program." Students can earn up to 16 hours of departmental elective credit. These credits are distributed across four courses - PLSC 4301 or PLSC 4401, and PLSC 4402, PLSC 4403, PLSC 4404 – depending on students' topical concentration. Prerequisites: 1) declared major in political science, public policy, or international studies, and 2) two advanced courses in political science that are relevant to the selected concentration.

Psychology

www.smu.edu/psychology

Associate Professor Austin Baldwin, **Department Chair**

Professors: George Holden, Ernest Jouriles, Akihito Kamata, Renee McDonald, Alicia Meuret, Thomas Ritz, David Rosenfield
Associate Professors: Austin Baldwin, Michael Chmielewski, Chrystyna Kouros (Co-Director of Undergraduate Studies)
Assistant Professors: Holly Bowen, Nathan Hudson, Priscilla Lui, Benjamin A. Tabak, Stephanie Wilson
Senior Lecturers: James Calvert, Susan Hornstein, Chris Logan (Co-Director of Undergraduate Studies)
Clinical Assistant Professor: Naomi Tabak

General Information

Psychology is the study of human behavior and cognition. A degree in psychology equips students with a variety of fundamental and transferable skills, including the ability to think scientifically, interpersonal and communication skills, and a sensitivity to diversity. A degree in psychology provides students with a solid academic foundation and prepares graduates to succeed in a variety of careers in psychology, law, medicine and business.

The research interests of faculty members fall into three broad areas: psychopathology, biological and health psychology, and family psychology. There are many opportunities for students to become involved in faculty research. A departmental distinction program provides highly motivated students with the opportunity to design and execute their own research project.

The Psychology Department offers one minor and two majors: a Bachelor of Arts and a Bachelor of Science. Students interested in the BS degree need to plan coursework very early to ensure completion within four years. The Psychology Department also jointly operates two interdisciplinary minors in neuroscience (with Biology) and cognitive science (with Philosophy).

Additionally, the department offers an accelerated pathway towards a Master of Science in organizational psychology to SMU undergraduates. The program can be completed in one year postbaccalaureate. Students who are interested in applying for this program should meet with the program director and their adviser early on to plan courses around completing two graduate courses during the senior year of undergraduate study followed by a summer, fall, and spring term after graduation.

Departmental Distinction

The department offers a distinction program to select majors with high academic achievement. The program consists of a sequence of classes where students, under the guidance of their faculty mentor, develop and conduct an independent research study. The program includes designing the study, collecting and analyzing the data, and then writing a paper for conference presentation and journal submission. To be eligible for the program, a student must have at least a 3.5 GPA overall and a 3.5 GPA in Psychology. Interested students should consult with the departmental adviser or director of undergraduate studies.

With departmental approval, the student will enroll for PSYC 3393 to begin preparation for the distinction paper. Upon completion of PSYC 3393 with a grade of Pass, students may enroll in PSYC 4393. On the basis of this research project, an oral and poster presentation will be made to the faculty, and a distinction thesis will be written. A grade of B or better is required for PSYC 4393 in order to earn Departmental Distinction in Psychology. Students who will complete an original data collection may register for research training (PSYC 3099, PSYC 3199, PSYC 3299, or PSYC 3399) prior to enrolling in PSYC 4393. Departmental Distinction may be added to either the B.A. or B.S. degree.

Psychology, B.A.

A B.A. in psychology requires 36 credit hours (12 courses). Prior to declaring a Bachelor of Arts with a major in psychology, students must complete a three-course foundation sequence of PSYC 1300, PSYC 3301 and STAT 2331 with no individual grade less than a *C*-. Research training, independent study and internship courses are

available (PSYC 3099, PSYC 3199, PSYC 3299, PSYC 3399 and PSYC 4385) on a pass/fail basis. These courses will not count toward the required hours for the major. To earn the B.A degree, students must earn a *C*- or higher in all graded classes.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Psychology Foundation (9 Credit Hours)

- PSYC 1300 - Introduction to Psychology
- PSYC 3301 - Research Methods in Psychology
- STAT 2331 - Introduction to Statistical Methods

Psychology Breadth (15 Credit Hours)

Students choose one course from each of the five breadth areas in the department:

Developmental:

- PSYC 2332 - Developmental Psychology
  or
- PSYC 4334 - Psychological Disorders of Children

Abnormal or Health:

- PSYC 2351 - Psychopathology
  or
- PSYC 3360 - Health Psychology

Social or Personality:

- PSYC 3341 - Social Psychology
  or
- PSYC 3370 - Personality

Neuroscience or Physiology:

One course from the following:

- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- PSYC 4322 - Social and Affective Neuroscience

Cognitive:

- PSYC 3310 - Memory and Cognition
  or
- PSYC 4310 - Cognition and the Brain

Advanced PSYC Electives (12 Credit Hours)

- Students must also complete 12 advanced hours (four courses) of psychology electives at the 3000 level and above.

Total for the Major Only: 36 Credit Hours

Psychology, B.A. or B.S. - Accelerated Pathway to Organizational Psychology, M.S.

This 36-credit hour (13 courses) M.S. degree program in organizational psychology is designed for SMU undergraduate students with a strong interest in pursuing a career using psychological skills in organizations or businesses. The program begins in the student's senior year and lasts four semesters plus one summer. Core courses are taught primarily by psychology faculty along with three courses offered by the Cox School of Business faculty. Admission to begin the program is by application during the spring term of the junior year.

Admission Requirements

Admission to the program is competitive and open only to current SMU undergraduates. Sophomores who plan to major in psychology and who want to pursue this accelerated M.S. in organizational psychology program should consult with the psychology department's director of undergraduate studies and/or the undergraduate adviser for approval before the end of the spring semester of their sophomore year (or for transfers, after completing 60 credit hours). Applicants should meet with the undergraduate adviser to be sure they will have taken all of the undergraduate courses suggested for entry into the program.

To apply for the accelerated master's program, the student must:

- Be enrolled in the B.A. or B.S psychology program at SMU
- Apply for approval to begin the sequence of courses for the accelerated pathway to the M.S. in organizational psychology program in the spring of their junior year. Students will then formally apply to transition to graduate status for the M.S. in the spring semester of their senior year.
- Complete PSYC 6381 and PSYC 6382 in the senior year with a grade of *B*- or higher. (Students not admitted to the M.S. program may still use the two courses toward a psychology B.A. or B.S. degree as long as the grades were *C*- or higher.)
- Submit two recommendation letters from SMU faculty members
- Submit their transcript
- Complete a personal statement

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Degree Requirements for the M.S.

The curriculum consists of six required psychology courses, two three-credit internships (one internship may be substituted for an additional elective course), three required Management and Organizations (MNO) courses in the Cox School of Business, and two elective courses. The program is offered on a cohort model: students begin the program in their senior year and take the required courses together but choose their own electives.

To receive a M.S. degree in organizational psychology, the student must:

- Have been awarded an undergraduate degree at SMU
- Complete a minimum of 36 credit hours of graduate coursework at SMU. At least 30 hours must have been completed post baccalaureate.
- Have a cumulative GPA of at least 3.000 (on a 4.000 scale) in the M.S. degree coursework
- Satisfactorily fulfilled other degree requirements

Curriculum

Students should refer to the psychology section of the undergraduate catalog for the B.A./B.S. degree requirements:

- Psychology, B.A.
- Psychology, B.S.

The degree requirements for the M.S. in organizational psychology are as follows:

Psychology Core Courses (Dedman School of Humanities and Sciences) (18 Credit Hours):

- PYSC 6381 - Advanced Applied Social Psychology
- PSYC 6382 - Foundations of Organizational Psychology
- PSYC 6383 - Ethical, Legal, and Diversity Issues at Work
- PYSC 6384 - Applied Methods and Analysis
- PSYC 6385 - Assessment: Individuals
- PSYC 6386 - Assessment: Programs

Experiential Learning (Dedman School of Humanities and Sciences) (6 Credit Hours)

With department permission, one option from the following:

Option 1:

- PSYC 6391 - Internship (taken twice for a total of 6 credit hours; once during the first summer and once in the second semester)

Option 2:

- PSYC 6391 – Internship (taken once for 3 credit hours)
- Additional elective from any of the elective options below.

Management and Organizations Core Courses (Cox School of Business) (6 Credit Hours):

- MNO 6202 - Leading Teams and Organizations
- MNO 6214 - Strategic Management of Human Capital
- MNO 6219 - People and Organizational Analytics

Electives Courses (6 Credit Hours)

Two courses from the following:

Dedman College of Humanities and Sciences

- STAT 6306 - Introduction to Data Science

Lyle School of Engineering

- DSIN 7303 - Human-Centered Design
- EMIS 7365 - Project and Program Management

Simmons School of Education and Human Development

- HDDR 6341 - Employment Law
- HDDR 6347 - Systems Design in Dispute Resolution
- HDDR 6351 - Workplace Conflict
- HDDR 6370 - Assessment and Interviewing
- HDDR 6371 - Transitional and Development Coaching
- HDDR 6372 - Performance Coaching
- HDCN 6321 - Lifestyle and Career Development: Individual and Systemic Perspectives

Masters of Liberal Arts Studies

- BHSC 6320 - Organizational Leadership, Sustainability Leadership: An Introduction to Organizational Sustainability Leadership
- BHSC 7335 - Sustainability Leadership: An Introduction to Organizational Sustainability Leadership

Total: 36 Credit Hours

Psychology, B.S.

A B.S. in psychology requires 45 or 46 credit hours (15 courses). Prior to declaring a Bachelor of Science with a major in psychology, students must complete the four-course foundation sequence of PSYC 1300, PSYC 3301, PSYC 4301, and STAT 2331. An approved alternate analysis course may be substituted for STAT 2331 with departmental permission. The foundation courses must be completed with a *C* or higher on the first attempt in order to declare the B.S. degree.

Research training, independent study and internship courses are available (PSYC 3099, PSYC 3199, PSYC 3299, PSYC 3399, and PSYC 4385) on a pass/fail basis. These courses will not count toward the required advanced elective hours for the major. To earn the B.S. degree, students must earn a *C*- or higher in all breadth and elective classes and have a major GPA of 2.500.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Psychology Foundation (12 Credit Hours)

- PSYC 1300 - Introduction to Psychology
- PSYC 3301 - Research Methods in Psychology
- PSYC 4301 - Advanced Quantitative Methods in Psychology

- STAT 2331 - Introduction to Statistical Methods
  or
- approved alternate analysis course

Psychology Breadth (15 Credit Hours)

Students choose one course from each of the five breadth areas in the department:

Developmental:

- PSYC 2332 - Developmental Psychology
  or
- PSYC 4334 - Psychological Disorders of Children

Abnormal or Health:

- PSYC 2351 - Psychopathology
  or
- PSYC 3360 - Health Psychology

Social or Personality:

- PSYC 3341 - Social Psychology
  or
- PSYC 3370 - Personality

Neuroscience or Physiology:

One course from the following:

- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- PSYC 4322 - Social and Affective Neuroscience

Cognitive:

- PSYC 3310 - Memory and Cognition

or
- PSYC 4310 - Cognition and the Brain

Advanced PSYC Electives (9 Credit Hours)

Students must also complete nine advanced hours (three courses) of psychology electives at the 3000 level and above.

Scientific Perspective (3-4 Credit Hours)

Students must take one lab-based science course for science or engineering majors taken as part of the University Curriculum, or major elective, chosen from the following:

Anthropology:

- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
  or
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology

Biological Sciences:

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  or
- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

Chemistry:

- CHEM 1303 - General Chemistry
  and
- CHEM 1113 - General Chemistry Laboratory

Earth Sciences:

- GEOL 1315 - Introduction to Environmental Science

Physics:

- PHYS 1303 - Introductory Mechanics
  or
- PHYS 1307 - General Physics I
  and
- PHYS 1105 - Mechanics Laboratory

Advanced Analysis (3 Credit Hours)

In addition to the Psychology Foundation statistics course, B.S. students need to complete one additional advanced STAT elective at the 3000 level and above, or other advanced analysis course approved by the Psychology Department.

Experiential Learning (3 Credit Hours)

B.S. students need to complete three hours of Research Training with a faculty mentor in the Psychology Department. With departmental approval, students may substitute Research Training with the internship course.

- PSYC 3399 - Research Training
  or
- PSYC 4385 - Internship in Psychology

Total for the Major Only: 45-46 Credit Hours

Psychology Minor

A minor in psychology consists of 18 credit hours (six courses). PSYC 1300 must be successfully completed with a grade of *C*- or higher before declaring a psychology minor. Research training, independent study and internship courses are available (PSYC 3099, PSYC 3199, PSYC 3299, PSYC 3399, and PSYC 4385) on a pass/fail basis. These courses will not count toward the required hours for the minor. Students must earn a *C*- or higher in all classes for the minor.

Requirements for the Minor

Psychology Foundation (3 Credit Hours)

- PSYC 1300 - Introduction to Psychology

Psychology Breadth (9 Credit Hours)

Students must take at least one course from three of the five breadth areas in the department:

Developmental:

- PSYC 2332 - Developmental Psychology
  or
- PSYC 4334 - Psychological Disorders of Children

Abnormal or Health:

- PSYC 2351 - Psychopathology
  or
- PSYC 3360 - Health Psychology

Social or Personality:

- PSYC 3341 - Social Psychology
  or
- PSYC 3370 - Personality

Neuroscience or Physiology:

One course from the following:

- PSYC 4320 - Behavioral Neuroscience
- PSYC 4321 - Behavioral Action of Drugs
- PSYC 4322 - Social and Affective Neuroscience

Cognitive:

- PSYC 3310 - Memory and Cognition
  or
- PSYC 4310 - Cognition and the Brain

Advanced PSYC Electives (6 Credit Hours)

Students must also complete six advanced hours (two courses) of psychology electives at the 3000 level and above.

Total: 18 Credit Hours

Psychology Courses

PSYC 1300 - Introduction to Psychology
Credits: 3
Broad introduction to psychology as a behavioral science with special emphasis on cognition, development, learning, social, personality, physiological, and clinical psychology (psychopathology and psychotherapy).

PSYC 2332 - Developmental Psychology
Credits: 3
A survey of the processes and variables that influence the development of the fetus, infant, child, and adolescent. Emphasis is on theories and research in such areas as perceptual, cognitive, language, social/emotional, and moral development.

PSYC 2351 - Psychopathology
Credits: 3
A study of the theories, causes, assessment, and treatment of abnormal behavior, including depression, anxiety, psychosis, personality disorders, and other forms of psychopathology in adults. There is an examination of the continuum of normal and abnormal behavior, with consideration of historical and cultural perspectives, ethical concerns, and research methodologies in understanding psychological disorders.

PSYC 2362 - Psychology and the Challenges of Life
Credits: 3
Addresses issues that pertain to how individuals adjust to various developmental, social, and cultural challenges across their lifespan and environments.

PSYC 3099 - Research Training
Credits: 0
Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. Prerequisites: PSYC 1300 and instructor approval.

PSYC 3199 - Research Training
Credits: 1
Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. Prerequisites: PSYC 1300 and instructor approval.

PSYC 3299 - Research Training
Credits: 2
Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. Prerequisites: PSYC 1300 and instructor approval.

PSYC 3301 - Research Methods in Psychology
Credits: 3
Design and evaluation of psychological research, with emphasis on scientific method, data collection, experimentation, control procedures, validity, reliability, and report–writing skills. This is a challenging and rigorous class in research; required for psychology majors. Prerequisites: PSYC 1300 and one additional psychology course.

PSYC 3310 - Memory and Cognition
Credits: 3
A survey of how information is encoded, stored, and retrieved in adults. Topics may include attentional processes, perception, verbal learning, and memory. Prerequisites: PSYC 1300 or instructor approval.

PSYC 3341 - Social Psychology
Credits: 3
Addresses the question of how an individual's thoughts, feelings, and behaviors are influenced by his/her social environment; includes topics such as attitude change, conformity, attraction, aggression, and small-group behavior.

PSYC 3360 - Health Psychology
Credits: 3
A basic introduction to the subject. Topics include causes and correlates of health, illness, and dysfunction, as well as the interplay of emotions, cognitions, and behavioral and/or physical factors.

PSYC 3364 - Forensic Psychology
Credits: 3
Examination of the interface between psychology and the legal system, focusing in particular on the role of mental health experts in criminal trials and civil disputes.

PSYC 3365 - Organizational Psychology
Credits: 3
Psychological principles applied to organizations, both business and volunteer, emphasizing a systems approach and including personnel selection, leadership, motivation, communication, group dynamics, and an overview of organizational development.

PSYC 3366 - Positive Psychology
Credits: 3
Advanced psychology course that introduces research and theory in positive psychology. The focus of positive psychology is on strength rather than weakness, flourishing rather than languishing.

PSYC 3370 - Personality
Credits: 3
An examination of theories and research that address the underlying bases of personality and the causes of individual differences. Emphasis is on the normal personality, but the causes of abnormal personality development are also considered.

PSYC 3371 - Psychology of Women
Credits: 3
This course focuses on understanding women as individuals. Also, personality theories as they relate particularly to women. Modern women's options and conflicts, motives and values, and their perceptions of their individuality in the face of rapid social change are examined.

PSYC 3375 - Human Rights From a Psychological Perspective
Credits: 3
Examines human rights as informed by psychological concepts and research. Insights from social, clinical, and developmental psychology are used to better understand human rights violations and issues. Prerequisite: Instructor approval.

PSYC 3384 - Special Topics Abroad: Psychology
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. A maximum of 6 credit hours permissible toward the B.A. in psychology.

PSYC 3393 - Preparation for Departmental Distinction Thesis
Credits: 3
The first course in a course sequence for the psychology distinction program. During the term, students develop their research question and hypothesis, design their study, write the Introduction and Methods section of their paper, and prepare their IRB application. Prerequisite: Instructor approval.

PSYC 3399 - Research Training
Credits: 3
Supervised experience in faculty research projects in labs, clinics, or field settings. May involve library research, participant recruitment, data collection, and data input and analysis. Prerequisites: PSYC 1300 and instructor approval.

PSYC 3484 - Special Topics Abroad: Psychology
Credits: 4
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. A maximum of 6 credit hours permissible toward the B.A. in psychology.

PSYC 4301 - Advanced Quantitative Methods in Psychology
Credits: 3
Covers common research design and quantitative methods used in psychological research. Students learn how to apply these methods and how to read and critically evaluate psychological research. Prerequisites: PSYC 1300, PSYC 3301, and one additional psychology course.

PSYC 4310 - Cognition and the Brain
Credits: 3
Examines the structure and function of the human brain, with a special emphasis on its connection to normal and pathological cognitive behaviors. Prerequisites: PSYC 1300, PSYC 3301, and one additional psychology course, or instructor approval.

PSYC 4320 - Behavioral Neuroscience
Credits: 3
An advanced overview of the topic. Classes focus on understanding perception, consciousness and sleep, motor behavior, emotion, and learning, with evidence from the neurosciences, biology, and medical fields. Students learn basic anatomy, physiology, and research methods. Applications to research and treatment are addressed. Prerequisites: PSYC 1300 and one additional psychology course, or instructor approval.

PSYC 4321 - Behavioral Action of Drugs
Credits: 3
Addresses the principles of drugs and behavior, classification, and chemical effects of behaviorally active drugs; influences of environmental, response, and task variables; and the evaluation and treatment of addiction.

PSYC 4322 - Social and Affective Neuroscience
Credits: 3
Explores social and affective processes through fMRI research. Topics include examining patterns of activation in brain regions associated with empathy, social pain, social reward, and social connection. Prerequisite: PSYC 1300.

PSYC 4325 - Psychology of Emotions
Credits: 3
An advanced introduction to the topic, with a focus on theory as well as psychological and psychobiological research on humans and animals. Considers the role that cognitions, culture, language, and the nervous system play in determining emotions. Classes include group projects and demonstrations. Prerequisites: PSYC 1300 and one additional psychology course, or instructor approval.

PSYC 4334 - Psychological Disorders of Children
Credits: 3
Theories, causes, assessment, and treatment of abnormal behavior from infancy through adolescence. Topics include behavioral and emotional disorders, as well as developmental and learning problems. Historical and cultural perspectives, ethics, and research methods are also addressed.

PSYC 4337 - The Science of Parenting and the Family
Credits: 3
A research approach to understanding parent-child relationships and family functioning. Topics include theories, determinants of parenting, child-rearing effects, family dysfunction, cultural influences, non-traditional families, and social policy.

PSYC 4339 - Psychology of Aging
Credits: 3
An exploration of the biological, psychological, and socioemotional influences on adult development and aging. Topics may include cognitive and affective functioning, neurodegenerative diseases, neuroplasticity and cognitive interventions, and optimal aging. Prerequisite: PSYC 1300 or instructor approval.

PSYC 4342 - Close Relationships
Credits: 3
Covers research and theory in the psychology of close relationships, including different theoretical perspectives,

with emphasis on attraction, relationship development and maintenance, communication, conflict resolution, and relationship dissolution. Prerequisites: PSYC 1300 or instructor approval.

PSYC 4345 - Psychology of Culture, Ethnicity, and Race
Credits: 3
Seminar course that discusses issues pertaining to multicultural psychology. Topics include: culturally competent research methods used in psychology; development of cultural identity; and the roles of ethnicity, race, and culture on human behaviors, interpersonal relationships, psychopathology, and physical health. Prepares students to grapple with issues of multiculturalism in the modern, diverse society.

PSYC 4352 - Introduction to Clinical Psychology
Credits: 3
A survey of the important issues and subfields of clinical psychology from the viewpoint of the scientist-practitioner model. Covers research, assessment, diagnosis, and theories in the area of psychotherapy. Intended for students contemplating graduate school in clinical psychology or related fields. Prerequisites: PSYC 1300, PSYC 3301, and one additional psychology course, or instructor approval.

PSYC 4353 - Depression and Anxiety
Credits: 3
Provides students with an in-depth examination of the nature of mood and anxiety disorders, with an emphasis on the diagnosis, etiology, and treatment of adult mood and anxiety disorders. Prerequisite: PSYC 1300 or instructor approval.

PSYC 4363 - Psychology of Conflict Resolution
Credits: 3
Covers research and theory in the psychology of interpersonal conflict, as well as mechanisms for resolving, managing, or avoiding conflict. Emphasized domains are alternative dispute resolution, close relationships, and workplace and international conflict.

PSYC 4376 - Psychology of Religion
Credits: 3
Introduces the major issues, theories, and empirical approaches to the psychology of religion. Topics covered include the role that religion plays in the beliefs, motivations, emotions, and behavior of individuals.

PSYC 4377 - Environmental Psychology
Credits: 3
Incorporates research and theory from several fields within psychology to understand the relationship between individuals and their built and natural environments.

PSYC 4378 - Psychology of Evil
Credits: 3
Examines why people become evil, exploring a wide variety of malevolent behaviors with a focus on why people torture, rape, murder, and otherwise exploit and dehumanize others.

PSYC 4380 - History of Psychology
Credits: 3
Covers the most important movements and individuals contributing to the development of modern psychology.

PSYC 4381 - Special Topics
Credits: 3
Covers topics that may have temporary or limited interest. Topics include child development, family violence, advanced family psychology, anxiety disorders, and positive psychology.

PSYC 4385 - Internship in Psychology
Credits: 3
An intensive study of interpersonal helping relationships based upon psychological theories and research findings,

with emphasis on supervised personal involvement with others. Prerequisites: PSYC 1300, PSYC 3301 and instructor approval.

PSYC 4393 - Departmental Distinction in Psychology
Credits: 3
The second course in a sequence for the psychology distinction program. Over the course of the term, students complete their research projects and prepare them for dissemination. Prerequisite: Instructor approval.

PSYC 5381 - Special Topics
Credits: 3
Designed to cover topics that may have temporary or limited interest. Topics include psychology and law, health psychology, and the psychology of attachment.

Religious Studies

www.smu.edu/religiousstudies

Professor Jill DeTemple, **Department Chair**

Professors: William Barnard, Mark Chancey, Jill DeTemple, Johan Elverskog, Serge Frolov
Associate Professors: John Lamoreaux (Director of Undergraduate Studies), Steven Lindquist
Senior Lecturer: Shira Lander

Departmental Distinction

A student majoring in religious studies with a minimum overall GPA of 3.000 and a 3.500 GPA in the major by the middle of the junior year may apply for the degree with departmental distinction. Candidates for distinction must enroll in a directed research tutorial in the fall term of their senior year followed by an independent studies course in the spring term for which they will write a senior thesis. Only the directed research tutorial may be used to fulfill the 30-term-hour requirement for the major.

Religious Studies, B.A.

The B.A. degree in religious studies is appropriate for a general liberal arts education and for preprofessional training leading to graduate degrees in religious studies, law, theology or other areas of the humanities.

Departmental courses are offered in four areas: philosophical studies of religious ideas and values, historical studies of religious movements and institutions, social-scientific studies of religious beliefs and behavior, and textual studies of religious traditions and scriptures. A well-balanced program of undergraduate study includes courses from each of these four areas. Students planning to undertake Ph.D. work in religious studies are strongly encouraged to take the major with departmental distinction and to complete 12 credit hours in either French or German.

A total of 30 credit hours are required in the department, and 24 hours must be completed in courses numbered at the 3000 level and above. Students may earn a B.A. in religious studies with specializations in Asian religions, Christian tradition, or religion and culture.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (9 Credit Hours)

One course from the following:

- RELI 3306 - Hinduism
- RELI 3307 - Buddhism
- RELI 3378 - Religions of China

One course from the following:

- RELI 3319 - Old Testament
- RELI 3326 - New Testament

One course from the following:
(if not taken for the above requirements)

- RELI 3306 - Hinduism
- RELI 3307 - Buddhism
- RELI 3352 - Love and Death
- RELI 3365 - Understanding Self: East and West

- RELI 3368 - Wholeness and Holiness: Religion and Healing Across Cultures
- RELI 3375 - The Feminine Divine
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- RELI 3382 - Mysticism
- RELI 3384 - Hinduism and Colonial Encounters
- RELI 3386 - Myths, Epics, and Tales From India

Elective Courses (21 Credit Hours)

For students who are not specializing in Asian religions, Christian tradition, or religion and culture:
Seven RELI courses, at least five of which must be at the 3000 level and above, chosen in consultation with the director of undergraduate studies.

Asian Religions Specialization (9 Credit Hours)

Any course used to satisfy the core requirements in the major cannot also count toward the specialization.

Required Course

One course from the following, whichever was not taken to satisfy the core requirements:

- RELI 3306 - Hinduism
- RELI 3307 - Buddhism

Elective Courses

Two courses from the following, whichever were not taken to satisfy the core requirements:

- RELI 1303 - Introduction to Asian Religions
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- RELI 3384 - Hinduism and Colonial Encounters
- RELI 3386 - Myths, Epics, and Tales From India
- HIST 2390 - Civilization of India

Additional Elective Courses (12 Credit Hours)

Four RELI courses that meet the major distribution requirements regarding course level (i.e. 24 credit hours at the 3000 level and above), chosen in consultation with the director of undergraduate studies.

Christian Tradition Specialization (9 Credit Hours)

Any course used to satisfy the core requirements in the major cannot also count toward the specialization.

Required Course

One course from the following, whichever was not taken to satisfy the core requirements:

- RELI 3319 - Old Testament
- RELI 3326 - New Testament

Elective Courses

Two courses from the following, whichever were not taken to satisfy the core requirements:

- RELI 3304 - Christian Theology
- RELI 3309 - Bioethics From a Christian Perspective
- RELI 3337 - Christianity and American Public Life
- RELI 3341 - Religion in the United States Since 1865
- RELI 3342 - Religion in the United States to 1865
- RELI 3369 - Theology and Economics: God, Faith, and Money
- RELI 3371 - The World of the New Testament
- RELI 4371 - The Life and Letters of Paul

Additional Elective Courses (12 Credit Hours)
Four RELI courses, at least two of which must be at the 3000 level and above, chosen in consultation with the director of undergraduate studies.

Religion and Culture Specialization (9 Credit Hours)
Any course used to satisfy the core requirements in the major cannot also count toward the specialization.

Required Course
- RELI 3310/SOCI 3320 – The Social-Scientific Study of Religion

Elective Courses
Two courses from the following, whichever were not taken to satisfy the core requirements:
- RELI 3316 - Religion and Science
- RELI 3335 - Religious Sects in America
- RELI 3337 - Christianity and American Public Life
- RELI 3348 - Temples, Churches, and Synagogues in the Ancient Mediterranean
- RELI 3352 - Love and Death
- RELI 3353 - Identity and the Sacred in the Southwest
- RELI 3362 - Islam and the West
- RELI 3366/ANTH 3366 – Magic, Myth, and Religion Across Cultures
- RELI 3375 - The Feminine Divine
- RELI 3379 - Plants of the Gods: Religion and Psychedelics
- RELI 3381 - Religion, Gender, and Economic Development
- RELI 3383 - Reel Judaism: Cinematic Representations of Jewish Life
- RELI 3390 - A Persistent Prejudice: Anti-Semitism in Western Civilization

Additional Elective Courses (12 Credit Hours)
Four RELI courses, at least two of which must be at the 3000 level and above, chosen in consultation with the director of undergraduate studies.

Total for the Major Only: 30 Credit Hours

Religious Studies Minor
Requirements for the Minor
Students majoring in other departments or schools may obtain a minor in religious studies by completing 15 credit hours in the department. Nine hours must be completed in courses numbered at the 3000 level and above.

Religious Studies Courses
RELI 1300 - Special Topics Abroad: Religious Studies
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under a different subtitle.

RELI 1301 - Religious Literacy
Credits: 3
An introduction to the world's religions and the academic discipline of religious studies, leading to a familiarity with the histories, beliefs, practices, social contexts and scriptures of several world religions, as well as to an awareness of key issues in the methodology of religious studies.

RELI 1302 - Religious Literacy: Difference, Representation, and Identity in Taos
Credits: 3
An introduction to religious traditions of the world with an emphasis on literacy in those traditions, including practices, beliefs, scriptures, history, and human interaction.

RELI 1303 - Introduction to Asian Religions
Credits: 3
An introductory historical overview of select religious traditions of Asia. The course explores developments in religious and cultural trends expressed in South Asia and East Asia in traditions such as Hinduism, Buddhism, Jainism, Sikhism, Confucianism, Taoism, and/or Shintoism.

RELI 1304 - Introduction to Western Religions
Credits: 3
A historical introduction to Judaism, Christianity, and Islam. Topics include Moses and ancient Israelite religion; Jesus and early Christianity; rabbinic Judaism; Muhammad and classical Islam; the birth of Protestantism; and Jewish, Christian, and Islamic modernism.

RELI 1305 - Introduction to Primal Religions
Credits: 3
An introduction to the religious world views and ritual life of such primal cultures as Australian aboriginals, African tribal peoples, and native North and South Americans. Also, the significance of the resurgence of neo-paganism in the West.

RELI 1308 - Religion in the United States
Credits: 3
Explores the role of religion in contemporary American culture, including mainstream civil religion, specific religious traditions, and the interactions among different groups.

RELI 1311 - Judaism, Christianity, and the Bible
Credits: 3
An exploration of the common and distinctive elements in Judaism and Christianity; a study of the historical relationships between Jews and Christians.

RELI 2300 - Special Topics Abroad: Religious Studies
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 3300 - Special Topics Abroad: Religious Studies
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 3302 - Problems in the Philosophy of Religion
Credits: 3
The philosophy of religion, considering such problems as religious experience, human freedom, good and evil, belief in God, and immortality.

RELI 3304 - Christian Theology
Credits: 3
An exploration of such theological problems as the authority of the Bible, the reality of God, the meaning of Christ, the nature of humanity, and the end of history in light of the biblical heritage and contemporary thought.

RELI 3306 - Hinduism
Credits: 3
An exploration of the major attitudes and institutions that define Hinduism, with attention to ideology, social organization, and ritual in light of both historical development and contemporary practice.

RELI 3307 - Buddhism
Credits: 3
Communal rituals, practice, ethics, and political involvement of the Buddhist community ("sangha") as it has taken form in five cultural areas: India, South Asia, Tibet, East Asia, and America.

RELI 3308 - Christian Ethics and Moral Issues
Credits: 3
An examination of the relationship between moral reasoning and Christian belief. An analysis of various Roman Catholic and Protestant theories of religious ethics and of specific questions of personal conduct and social policy.

RELI 3309 - Bioethics From a Christian Perspective
Credits: 3
Examines bioethics from a Christian ethical perspective, with special attention to different methodological approaches to the significant themes and realities involved (e.g., life, health, suffering, death), and to the most important issues faced today.

RELI 3310 - The Social-Scientific Study of Religion
Credits: 3
An introduction to scientific ways of thinking about the social, cultural, and psychological aspects of religious life. Attention is given to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology, and the social-scientific study of religion.

RELI 3315 - Religion in Politics
Credits: 3
An examination of the impact of religious belief and ethical thought, as well as social, cultural, and psychological factors, on the involvement of religious people in the political sphere. Introduces the social-scientific study of religion to aid in the analysis of current and recent case studies, ranging from far-right conservatism to the revolution of the political left, and involving Christian, Jewish, Muslim, Hindu, and Buddhist traditions.

RELI 3316 - Religion and Science
Credits: 3
An exploration of how religion and science understand such topics as the origins and destiny of the universe and the evolution of life.

RELI 3318 - The Hero in the Bible and the Ancient Near East
Credits: 3
An examination of concepts of the hero in the literatures of ancient Mesopotamia, Canaan, and Israel, with special attention to the nature of traditional narrative and to the relationship between the hero, society, and the self.

RELI 3319 - Old Testament

Credits: 3
An introduction to the Old Testament and to the religion and history of ancient Israel. Special emphasis is given to the ancient Near Eastern roots of biblical religion and to the modern interpretation of biblical myth, epic, and prophecy.

RELI 3320 - Classical Judaism
Credits: 3
An introduction to the study of religion through examination of Judaism. The course looks at central Jewish religious ideas and their development within the rabbinic and medieval periods. Special attention is given to conflicts and controversies, such as Judaism's rejection of early Christianity, heretical movements within medieval Judaism, and Jewish attitudes toward other religions.

RELI 3321 - Religion and the Holocaust
Credits: 3
A study of responses to the Holocaust by Jews and Christians. Includes an overview of the history of the Holocaust as it affected the Jewish communities of Central and Eastern Europe. Students read personal memoirs of survivors of ghettos, concentration camps, and Nazi Germany. Postwar responses include questions of faith after the Holocaust, Christian responsibility for modern anti-Semitism, the impact of the Holocaust on the creation of the State of Israel and Middle East politics today, and postwar relations between Jews and Germans.

RELI 3324 - American Judaism
Credits: 3
An examination of Jewish life in America, including history, literature, cultural expressions, and religious beliefs from the 17th century to the present.

RELI 3326 - New Testament
Credits: 3
An introduction to the writings of the New Testament, the formative events, and the people who played leading roles in the origin of Christianity.

RELI 3329 - Islam
Credits: 3
An examination of the history, doctrines, and rituals of the Muslim community, including Islam in the past and present and in its global context.

RELI 3330 - History of Christianity
Credits: 3
An introduction to the European development of Christianity, focusing on the key movements, the outstanding leaders, and crucial turning points in the history of Christianity.

RELI 3331 - Renewal: Roman Catholicism
Credits: 3
Concentrates on the more significant documents of the Second Vatican Council (1962-1965). Includes the background prior to the Second Vatican Council, the changes that helped bring it about, and developments in Roman Catholicism during the last 30 years.

RELI 3333 - Religion in America
Credits: 3
A consideration of the history of religion in America from the Colonial period to the present. Special emphasis on either selected religious groups, movements, or thinkers.

RELI 3334 - Conservatism and Liberalism in Christianity
Credits: 3
An examination of the fundamentalist, evangelical, and liberal understandings of Christianity, with attention to the issues at stake, and the problems and possibilities of dialogue.

RELI 3335 - Religious Sects in America
Credits: 3
An examination of new religious movements that originated in America, e.g., Mormonism; Seventh-Day Adventism; Scientology; the Church of Christ, Scientist (Christian Science); and the Nation of Islam, as well as religious movements in the U.S. that originated abroad, e.g., Hasidic Judaism, Theosophy, the Unification Church, the Hare Krishna movement, and Baha'i.

RELI 3337 - Christianity and American Public Life
Credits: 3
Explores the individualism permeating American understanding and life, and the communitarian dimensions of human existence from the Christian perspective. Helps students enter more critically into the dialogue about the role of religion in pluralistic, contemporary American society.

RELI 3339 - The Puritan Tradition in England and America
Credits: 3
An examination of the religious, political, scientific, economic, and literary dimensions of the Puritan movement in Tudor-Stuart England and in Colonial America.

RELI 3341 - Religion in the United States Since 1865
Credits: 3
Explores American religion and the role of religion in politics, science and knowledge, community, gender and family, and culture.

RELI 3342 - Religion in the United States to 1865
Credits: 3
Investigates the foundations of American religious culture, including native, African, and European traditions; colonization; early evangelicalism; the Revolutionary War; and the religious culture of the new United States.

RELI 3343 - Religion and the American Revolution
Credits: 3
Investigates the history of religion and the American Revolution, including their Colonial background, evangelicalism and Enlightenment, and the influence of religion on founding documents and leaders.

RELI 3347 - Dallas' Houses of Worship: Staging the Sacred in a 21st Century American City
Credits: 3
Analyzes the social function of worship spaces in six world religions (Buddhism, Christianity, Hinduism, Islam, Judaism, Sikhism) using spatial-ritual theory and the two disciplines of religious studies and architecture.

RELI 3348 - Temples, Churches, and Synagogues in the Ancient Mediterranean
Credits: 3
Explores the forms, politics, and social functions of sacred spaces in the ancient Mediterranean using contemporary theories of spatiality. Students learn how to analyze archaeological and literary remains.

RELI 3350 - History of Biblical Interpretation
Credits: 3
A survey of the interpretive approaches to the Bible in Jewish and Christian traditions from ancient times to the modern era. Topics include interpretation in the biblical period, rabbinic and early Christian exegesis, mystical interpretation, and modern historical scholarship. The social context and the aims of interpretation are key concerns of the course.

RELI 3352 - Love and Death
Credits: 3
An exploration of love and death in the mythologies of Mesopotamia, Egypt, Canaan, Greece, and India. The interaction of these twin themes will be pursued as a key to the religious and philosophical perspectives of these ancient peoples. The significance of ancient mythology for modern reflection will be a central concern throughout the course.

RELI 3353 - Identity and the Sacred in the Southwest
Credits: 3
An introduction to the Latino/a religions and religious practices in the United States, with a special emphasis on social constructions of the borderland.

RELI 3360 - The History of Judaism
Credits: 3
An overview of both the historical development of the Jewish tradition and its central laws, religious practices, and theology.

RELI 3362 - Islam and the West
Credits: 3
A study of past and present encounters between Islam and the West, with special attention to the bearing of the contemporary Islamic resurgence upon these encounters today.

RELI 3365 - Understanding Self: East and West
Credits: 3
An examination of several basic notions pertaining to selfhood, including consciousness, cognition, motivation, personal identity, and decision, as found in Eastern and Western sources.

RELI 3366 - Magic, Myth and Religion Across Cultures
Credits: 3
A cross-cultural and comparative exploration of religion, ritual, magic, and supernatural belief systems. Examines how religion permeates other aspects of society and culture.

RELI 3368 - Wholeness and Holiness: Religion and Healing Across Cultures
Credits: 3
An exploration of various understandings of the relationship between religion and healing. Analysis of the interface between medical and religious models of health through a wide range of ethnographic examples and theoretical perspectives. Special attention is also given to different religious healing modalities.

RELI 3369 - Theology and Economics: God, Faith, and Money
Credits: 3
Provides students with skills for a theological evaluation of economic theories and practices, particularly as they bear on the rise and ascendancy of the global market. Discusses the historical development of economics in relation to Protestant and Catholic teaching on economics. Includes a brief component on Jewish and Islamic teaching. Asking what theology has to do with economics and how economics works, students learn about the historical development of economics according to the "worldly philosophers" to discover answers to these questions. The final weeks of the course examine Jewish and Islamic teaching, comparing them to Protestant and Catholic economic ethics.

RELI 3371 - The World of the New Testament
Credits: 3
Investigates the intersections of political history, social history, philosophical thought, and religious belief and practice, with particular attention to Judaism and Christianity in their Greco-Roman context.

RELI 3374 - Female and Male in Religion and Culture
Credits: 3
Students explore how the study of gender differences affects their understanding of history, religion, and culture. Includes a critical look at current discussions in the field of women's studies and their impact on contemporary thought.

RELI 3375 - The Feminine Divine
Credits: 3
A historical and cross-cultural overview of the relationship between feminine and religious cultural expressions through comparative examinations and analyses of various goddess figures in world religions.

RELI 3377 - The Cultural History of Tibet
Credits: 3
A critical study of Tibetan history, culture, and religion, and how they relate to the representation of Tibet in travel, scholarly, and popular literature.

RELI 3378 - Religions of China
Credits: 3
A historical survey of the religious cultures of China from the ancient Shang dynasty through the contemporary period.

RELI 3379 - Plants of the Gods: Religion and Psychedelics
Credits: 3
An exploration of the religious use of psychedelic ("mind manifesting") substances throughout history and in a variety of cultures.

RELI 3380 - Women and Religion in America
Credits: 3
A historical introduction to the role of women in American religious history with special attention to the interplay between women and wider religious and cultural values.

RELI 3381 - Religion, Gender, and Economic Development
Credits: 3
A consideration of gender and religion in the context of international economic development with a particular emphasis on "tradition" as a category of analysis and evaluation.

RELI 3382 - Mysticism
Credits: 3
An inquiry into mysticism as a path for attaining individual religious fulfillment. Attention to such mystic traditions as Zen, Tantra, Yoga, Sufism, Kabbalah, and Christian mysticism.

RELI 3383 - Reel Judaism: Cinematic Representations of Jewish Life
Credits: 3
Explores how American, European, and Israeli films variously represent Jewish life past and present. Addresses issues of identity-construction, cultural context, collective memory, politicization, majority representation, and minority self-representation.

RELI 3384 - Hinduism and Colonial Encounters
Credits: 3
A critical study of the history of colonialism in India and its impact on social, religious, and political discourse.

RELI 3386 - Myths, Epics, and Tales From India
Credits: 3
Examines religious narratives from ancient India. Students read and analyze many examples across different genres (myth, epic, folktale) in text and performance, focusing on literary and historical context and interpretation.

RELI 3387 - Religion and Human Rights
Credits: 3
Major world religious traditions and modern ideas of human rights. Religious understandings of humanity and political order are considered in relation to contemporary human rights issues.

RELI 3389 - Living From the Heart (Of It All): An Exploration of Mystical/Spiritual Ethics
Credits: 3
Explores the intersection between ethics and mysticism/spirituality, and compares the ethical ideals and metaphysical assumptions of various mystical traditions, as well as the prosaic ethical implications of mysticism and spirituality.

RELI 3390 - A Persistent Prejudice: Anti-Semitism in Western Civilization
Credits: 3
Studies the evolution of anti-Jewish stereotypes in Western culture in the context of human rights as well as classical anti-Judaism's transformation into the modern phenomena of anti-Semitism and anti-Zionism.

RELI 3391 - Waking Up: The Philosophy of Yoga and the Practice of Meditation
Credits: 3
Explores the Hindu traditions of yoga and tantra, investigating key understandings of meditation, selfhood, and consciousness, with an equal emphasis on theory, experience, and practice.

RELI 4198 - Independent Study
Credits: 1
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4199 - Independent Study
Credits: 1
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4298 - Independent Study
Credits: 2
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4299 - Independent Study
Credits: 2
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4300 - Special Topics Abroad: Religious Studies
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle.

RELI 4352 - Jesus and the Gospels
Credits: 3
An examination of canonical and noncanonical Christian Gospels, with special attention to methods of Gospel research and to the study of the historical Jesus.

RELI 4354 - Prophets of the Old Testament
Credits: 3
An introduction to the writings and religious concepts of the prophets of ancient Israel. Special emphasis will be given to the roots of prophecy in ancient Near Eastern religions, the social role of the Israelite prophet, and comparisons with seers and shamans of modern religious traditions.

RELI 4356 - The Bible and Ethics
Credits: 3
An examination of the ways in which Christians have appealed to the Bible in ethical debates, with special attention to classic ethical approaches, specific ethical issues, and methodological problems.

RELI 4371 - The Life and Letters of Paul
Credits: 3
A study of Paul and Pauline Christianity, drawing on Paul's letters, the Acts of the Apostles, and other documents of the New Testament.

RELI 4385 - Internship in Religious Studies
Credits: 3
This course enables students to gain vocational experience by working in nonsectarian religious organizations and institutions, such as social justice agencies, ecumenical associations, and charitable or educational foundations.

RELI 4388 - Special Topics in Religious Studies
Credits: 3
A detailed investigation of a topic chosen by the instructor. Topics vary.

RELI 4389 - Special Topics in Religious Studies
Credits: 3
A detailed investigation of a topic chosen by the instructor. Topics vary.

RELI 4396 - Directed Reading and Research
Credits: 3
Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

RELI 4397 - Directed Reading and Research
Credits: 3
Special topics to be selected by the student in consultation with the department. Open to seniors upon departmental approval.

RELI 4398 - Independent Study
Credits: 3
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4399 - Independent Study
Credits: 3
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4498 - Independent Study
Credits: 4
Individual study with an instructor. Permission of instructor and departmental chair required.

RELI 4499 - Independent Study
Credits: 4
Individual study with an instructor. Permission of instructor and departmental chair required.

Sociology

www.smu.edu/sociology

Associate Professor Anne E. Lincoln, **Department Chair**

Associate Professors: Matthew R. Keller, Sheri Kunovich, Anne E. Lincoln
Assistant Professors: Jessica Garrick, Lucas Kirkpatrick
Senior Lecturers: Debra Branch, Nancy Campbell-Jeffrey
Lecturers: Leslie DeArman (Undergraduate Adviser), Andrea Laurent-Simpson, Kara Sutton

General Information

The sociology curriculum includes courses on research design, data analysis and social theory, as well as courses on developing an understanding of domestic and international social conditions. In today's information society, these skills give sociology majors a competitive advantage in fields that rely heavily upon social research.

Sociology majors entering the business world often work in market research, human resources, personnel management, industrial relations, public relations or sales, while sociology majors entering human services often work in nonprofits focused on addressing social problems and helping individuals solve problems related to economic insecurity, substance abuse or housing insecurity. In the government sector, sociology majors often work in policy analysis, program evaluation or urban planning. A sociology degree also provides a strong foundation for careers in law, government, community organizing, health care and education.

The Department of Sociology offers three majors and one minor. Students are not permitted to pursue both a B.A. and B.S. in sociology but may pursue the combination of a markets and culture major and either the B.A. or B.S. in sociology. Students who combine a markets and culture major with the B.A. or B.S. in sociology may double count up to 15 hours of course credit between these programs. SOCI 3311 and SOCI 3312 will automatically be included, as well as three additional courses as determined by the department.

Departmental Distinction

The department offers graduation with distinction to majors of high academic achievement. Interested students with a minimum 3.000 overall GPA and a 3.500 GPA in the major may consult with the director of undergraduate studies for admission to the distinction track. If the director determines that the student has satisfied the requirements, the student may then contact a departmental faculty member to request direction of the distinction paper. The candidate's distinction paper must be a substantial piece of independent and original research. The research will be presented and evaluated by a distinction committee comprised of at least two faculty members. Upon positive recommendation from this committee, the student will be awarded graduation with distinction. Criteria for graduating with departmental distinction include the following:

- A minimum 3.000 overall GPA at graduation.
- A minimum 3.500 GPA in required courses for the major.
- A minimum grade of *A*- in SOCI 4396.

Markets and Culture, B.A.

Associate Professor Matthew R. Keller, **Director**

The B.A. in markets and culture provides students the opportunity to learn about the world's marketplaces from an interdisciplinary vantage in the social sciences. Students receive a firm grounding in the principles of markets, the values and history of commerce, the social bases of economic behavior, and business concepts and practices while gaining an understanding of the multiple institutions and cultures that shape the world's markets.

Prior to declaring a major in markets and culture, students must achieve a grade of *C* or better in SOCI 2377. Students must receive at least a *C*- in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. Students are encouraged to choose their electives using one of the three areas of concentration presented below. Students who earn a second major in Spanish, German, French, or World Languages will automatically satisfy the elective requirements for the MKCL major. Students who earn a minor in languages where there is no option for a major at SMU will automatically satisfy the elective requirements for the MKCL

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

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (30 Credit Hours)

- SOCI 2377 - Introduction to Markets and Culture

- ENGL 2302 - Business Writing
  or
- BLI 3302 - Business Communications and Leader Development *(Cox majors only)*
  or
- SOCI 4351 - Nonprofit Fundraising and Grant Writing

- ACCT 2301 - Introduction to Financial Accounting *(see prerequisites)*
- SOCI 3311 - Social Science Research Methods
- SOCI 3312 - Database Methods and Analysis
- STAT 2331 - Introduction to Statistical Methods

One course from the following:

- SOCI 3376 - Sociology of Work
- SOCI 3377 - Organizations and Their Environments

One course from the following:

- SOCI 4377 - Economic Sociology
- SOCI 4384 - Sociology of Innovation: Knowledge, Technology, and Institutions
- SOCI 4376 - Social Organization of Professional Work

One course from the following:

- ECO 3355 - Money and Banking *(see prerequisites)*
- FINA 3320 - Financial Management *(Cox majors and minors only)*

One course from the following:

- SOCI 3340 - Global Society
- SOCI 3368 - Global Urbanism: Implosions/Explosions

Elective Courses (12 Credit Hours)

Four courses from one or more of the following groups:

Management, Business Strategy, and Organizations

- BUSE 2301 - Life Cycle Economics: Personal Financial Planning for Today and Tomorrow
- CCPA 3321 - Communication in Global Context
- ECO 3301 - Price Theory (Intermediate Microeconomics)
- ECO 3302 - Intermediate Macroeconomics
- ECO 4351 - Labor Economics
- ECO 4368 - Foundations of Financial Economics
- ECO 5365 - Federal Government Expenditures
- MKTG 3340 - Fundamentals of Marketing *(Cox majors and minors only)*

- MNO 3370 - Management *(Cox majors and minors only)*
- MNO 3373 - Negotiations *(Cox majors only)*
- MNO 4371 - Leadership and Culture *(Cox majors only)*
- PHIL 1317 - Business Ethics
- PLSC 3320 - Principles of Public Policy
- PLSC 3382 - International Organizations
- PSYC 3365 - Organizational Psychology
- SOCI 3321 - Nonprofit Organizations: Conceptual Primer
- SOCI 4353 - Nonprofit Management and Community Leadership
- STRA 5370 - Strategic Management in a Global Economy *(Cox majors only)*

Political Economy, Inequality, and Development

- ANTH 3385 - Sustainable Living: An Introduction to Systems and Resilience Thinking
- ANTH 4303 - Political Economy of Health
- ANTH 4384 - Political Economy: Global Processes and Problems
- ECO 4365 - State and Local Government
- ECO 5357 - International Trade
- ECO 5358 - International Macroeconomic Theory and Policy
- ECO 5360 - Economic Development: Macroeconomic Perspectives
- ECO 5366 - Federal Government Taxation
- PLSC 3389 - International Political Economy
- PLSC 4353 - Political Economy of East Asia
- PLSC 4355 - Comparative Political Economy of Industrialized Democracies
- PLSC 4356 - Latin American Political Economy
- SOCI 3340 - Global Society
- SOCI 3368 - Global Urbanism: Implosions/Explosions
- SOCI 3369 - U.S. Urbanism: Inclusions/Exclusions
- SOCI 3372 - Contemporary Issues in the American Southwest
- SOCI 4373 - Class, Race, and Gender Inequalities
- SOCI 4382 - Environmental Sociology

Consumers and Markets in Historical and Cultural Contexts

- ADV 1341 - Marketing Principles of Advertising
- ADV 2301 - Consumer Behavior *(Advertising majors and minors only)*
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ANTH 3314 - Peoples of Africa
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- ANTH 3344 - Cultural Aspects of Business
- ANTH 3350 - Good Eats and Forbidden Flesh: Culture, Food, and the Global Grocery Market
- ANTH 3354 - Latin America: Peoples, Places, and Power
- ANTH 3361 - Language in Culture and Society
- CCPA 3342 - Race and Identity Construction in Global Contexts
- HIST 3327 - Women in American History From 1865
- HIST 3364 - History of Consumer Culture in the United States
- PLSC 4354 - The Third World and North-South Relations
- RELI 3381 - Religion, Gender, and Economic Development
- SOCI 3345 - Construction of Social Identities in the Media
- SOCI 3376 - Sociology of Work
- SOCI 3377 - Organizations and Their Environments
- SOCI 4340 - Sociology of Culture

Total for the Major Only: 42 Credit Hours

Sociology, B.A.

Prior to declaring a sociology major, students must complete SOCI 1300 with a grade of *C* or better. Students must receive at least a *C*- in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. STAT 2331 is recommended but is not applied toward the B.A. Only one independent study course (SOCI 4393 or SOCI 4396) may be taken for a grade and applied toward the major. General internship courses (SOCI 4185, SOCI 4285, SOCI 4385) may only be taken on a pass/fail basis, and will not be counted toward the major.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (12 Credit Hours)

- SOCI 1300 - Introduction to Sociology
- SOCI 3311 - Social Science Research Methods
- SOCI 3312 - Database Methods and Analysis

- SOCI 4313 - The Sociological Tradition
  or
- SOCI 4314 - Contemporary Sociological Theory

Elective Courses (21 Credit Hours)

- Four additional courses at the 2000 or 3000 level
- Three additional courses at the 4000 level

Total for the Major Only: 33 Credit Hours

Sociology, B.S.

The B.S. degree in sociology provides a more rigorous curriculum in social science research and analytic writing, and a solid foundation for graduate study or professional school. Prior to declaring a sociology major, students must complete SOCI 1300 with a grade of *C* or better. Students must receive at least a *C*- in all remaining required courses and meet a minimum GPA of 2.000 in all courses counted toward the major. Only one independent study course (SOCI 4393 or SOCI 4396) may be taken for a grade and applied toward the major. General internship courses (SOCI 4185, SOCI 4285, SOCI 4385) may only be taken on a pass/fail basis, and will not be counted toward the major.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (18 Credit Hours)

- SOCI 1300 - Introduction to Sociology
- SOCI 3311 - Social Science Research Methods
- SOCI 3312 - Database Methods and Analysis
- SOCI 4313 - The Sociological Tradition
- SOCI 4314 - Contemporary Sociological Theory

- STAT 2331 - Introduction to Statistical Methods

Elective Courses (18 Credit Hours)

- Three additional courses at the 2000 or 3000 level
- Three additional courses at the 4000 level

Total for the Major Only: 36 Credit Hours

Sociology Minor

A minor in sociology complements many other majors. Markets and culture majors who want to minor in sociology will be allowed to double count up to six credit hours, specifically SOCI 3311 and SOCI 3312.

Requirements for the Minor

Core Courses (3 Credit Hours)

- SOCI 1300 - Introduction to Sociology

One course from the following: (3 Credit Hours)

- SOCI 3311 - Social Science Research Methods
- SOCI 3312 - Database Methods and Analysis
- SOCI 4313 - The Sociological Tradition
- SOCI 4314 - Contemporary Sociological Theory

Elective Courses (9 Credit Hours)

- Three additional courses, two of which must be at the 3000 level and above

Total: 15 Credit Hours

Sociology Courses

SOCI 1300 - Introduction to Sociology
Credits: 3
This course presents the sociological approach to understanding human behavior. Sociology considers how particular life experiences, attitudes, and values are shaped by membership in ascribed and achieved social categories such as social class, race/ethnicity, sex, sexuality, and nationality.

SOCI 2180 - SMU Abroad: Sociology
Credits: 1
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. or B.S. in sociology or the B.A. in markets and culture.

SOCI 2280 - SMU Abroad: Sociology
Credits: 2
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. or B.S. in sociology or the B.A. in markets and culture.

SOCI 2300 - Social Problems
Credits: 3
Examines social problems within the contexts of their particular societies and cultures; how a social problem is defined; and how solutions are shaped by politics, corporations, media interests, and social movements.

SOCI 2377 - Introduction to Markets and Culture
Credits: 3
General introduction to economic sociology, examining the effects of culture and social relations on shaping production, distribution, and consumption in domestic and global markets. Prerequisite: First-year, sophomore, or junior standing only. Must have access to Microsoft Excel. Recommended to take after completing WRTR 1311, WRTR 1312, or their equivalents (WRTR 2303, WRTR 2305).

SOCI 2380 - SMU Abroad: Sociology
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3180 - SMU Abroad: Sociology
Credits: 1
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3280 - SMU Abroad: Sociology
Credits: 2
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.A. or B.S. in sociology or the B.A. in markets and culture.

SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
Credits: 3
A cross-cultural exploration of cultures and organization of medical systems, economic development and the global exportation of biomedicine, and ethical dilemmas associated with medical technologies and global disparities in health.

SOCI 3305 - Introduction to Race and Ethnicity in the United States
Credits: 3
An interdisciplinary seminar designed to introduce the analysis of race and ethnicity in the United States. Topics include inequality, residential segregation, immigration, and ethics.

SOCI 3311 - Social Science Research Methods
Credits: 3
Introduces qualitative and quantitative research methods used by sociologists. Students learn how to design, conduct, and report research in an ethical, clear, and concise manner. Assignments provide hands-on experience using and collecting data for social science research. This is the first course in the research methods sequences. Prerequisite: SOCI 1300, SOCI 2377, or SOCI 3321.

SOCI 3312 - Database Methods and Analysis
Credits: 3
Focuses on data analysis of existing data commonly used for economic and social scientific purposes (e.g., U.S. Census, General Social Survey, World Bank) and the construction of new data from multiple sources. Reviews basic quantitative research methodology, descriptive and inferential statistics, data reduction and management techniques, and the interpretation of statistics in applied social research. Students become adept at using multiple database programs (e.g., Excel, SPSS, SAS). This is the second course in the research methods sequence. Prerequisite: C- or better in SOCI 3311.

SOCI 3315 - Nonprofit Evaluation Research
Credits: 3
Introduces analytic procedures that enable students to use social scientific data to assess nonprofit program effectiveness and perform outcome evaluation, through the use of standard statistical software.

SOCI 3320 - The Social-Scientific Study of Religion
Credits: 3
An introduction to scientific ways of thinking about the social, cultural, and psychological aspects of religious life. Attentive to major thinkers and theories dealing with religion in the disciplines of anthropology, psychology, sociology, and the social-scientific study of religion.

SOCI 3321 - Nonprofit Organizations: Conceptual Primer
Credits: 3
Explores the nonprofit sector and relevant topics such as nonprofit history, theories, management, and trends, with a focus on strategies for improving organizations in light of the nonprofit sector's relationship with government and business. Prepares students for their subsequent nonprofit internship.

SOCI 3322 - Nonprofits at Work in the Community
Credits: 3
Explores the nonprofit sector's role in addressing myriad social problems, especially those most prevalent in the Dallas area. Students examine issues such as poverty, domestic violence, health care, and the aging population. Traditional lectures on campus introduce concepts relating to the social issue being explored and the specific ways in which the nonprofit sector is working to mitigate the problems. Includes fieldtrips to local nonprofit agencies to tour facilities and meet with administrators, volunteers, and clients who are working to address the social problems discussed in class.

SOCI 3330 - Social Construction of Identities
Credits: 3
Examines classical and contemporary theoretical explanations for the development, persistence, and destruction of constructed social identities based on gender, sexuality, race and ethnicity, social class, disability status, etc.

SOCI 3331 - Animals and Society
Credits: 3
Examines historical and contemporary relationships between human society and nonhuman animals, including the social construction of nonhuman animals and the effects of institutional arrangements on human/nonhuman animal relationships.

SOCI 3340 - Global Society
Credits: 3
Provides students with a sociological orientation to the evolving interconnectedness among societies, nation-states, cultures, economies, and individuals around the globe.

SOCI 3341 - Sociology of Development: Obstacles and Opportunities in the Global South
Credits: 3
This study abroad course in the sociology of development focuses on obstacles and opportunities in developing nations. The focus is on how globalization and development affect the lives of people living in the "global South."

SOCI 3345 - Construction of Social Identities in the Media
Credits: 3
Provides a broad historical and contemporary background to the study of media representations of groups in society. Particular attention is paid to how gender, race, sexuality, and social class are constructed in visual and print media.

SOCI 3351 - Sociology of the Family
Credits: 3
Examines the relationship between social structure and the family by considering the historical development of the family, variations in families, and current issues and changes affecting the family.

SOCI 3355 - Just a Game? Sport and Society
Credits: 3
As athlete or spectator, sport IS more than just a game—it is a microcosm of our society. Course provides a foundation in sociological ways of thinking about sports. Recommended prerequisites (any of the following): SOCI 3311, PSYC 3301, SOCI 3330, APSM 4310, SOCI 3371, SOCI 3305.

SOCI 3360 - Law and Society
Credits: 3
A broad overview of the history and functions of American major legal institutions and their relationship to American culture and social structure.

SOCI 3363 - Crime and Delinquency
Credits: 3
Explores U.S. crime problems from a sociological perspective, including impacts of inequality, crime patterns, theories of criminal behavior, and prevention of crime.

SOCI 3368 - Global Urbanism: Implosions/Explosions
Credits: 3
An introduction to urban life and culture around the world, including how to study cities, who inhabits cities, and the special features of city places and spaces.

SOCI 3369 - U.S. Urbanism: Inclusions/Exclusions
Credits: 3
Introduction to historical and contemporary U.S. cities from the perspective of "the urban" (space of cities), "urbanism" (city as a way of life), and "urbanization" (city as a societal process).

SOCI 3370 - Minority-Dominant Relations
Credits: 3
The nature, origins, and consequences of relationships between unequal groups; U.S. and other societies are compared.

SOCI 3371 - Sociology of Gender
Credits: 3
This course examines the social and cultural construction of gender within relationships, friendships, families, schools, the media, and the workplace. It also explores the intersection of gender with race, ethnicity, social class, and sexuality.

SOCI 3372 - Contemporary Issues in the American Southwest
Credits: 3
Focuses on contemporary issues facing the American Southwest, including social problems that exist within the contexts of particular groups, communities, cultures, and societies. Explores sociological issues relating to the environment, the media, poverty, immigration, food insecurity, education, crime, economic development, and health, among others.

SOCI 3376 - Sociology of Work
Credits: 3
A survey of macro- and micro-level perspectives on the American occupational structure and the social forces shaping workplaces, workers, and the world of paid employment in the United States.

SOCI 3377 - Organizations and Their Environments
Credits: 3
Explores theories of organizations and relationships between organizations and their environments, and applies these theories to the analysis of real-world organization activities. C or better in SOCI 2377 recommended.

SOCI 3380 - SMU Abroad: Sociology
Credits: 3
Courses offered in SMU-approved international programs. Prior departmental approval required. May be repeated for credit under different subtitle. Maximum of 6 credit hours permissible toward the B.S. in sociology

SOCI 4093 - Undergraduate Full-Time Status
Credits: 0
Noncredit-bearing course with no tuition.

SOCI 4185 - Internship in Sociology
Credits: 1
Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4186 - Internship in Markets and Culture
Credits: 1
Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4193 - Individual Research
Credits: 1
Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. Prerequisites: C- or better in SOCI 3311, SOCI 3312; sociology or markets and culture major; and instructor consent.

SOCI 4199 - Special Topics: Sociology Seminar
Credits: 1
Seminar on selected sociological areas. May be repeated for credit if topics differ.

SOCI 4285 - Internship in Sociology
Credits: 2
Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4286 - Internship in Markets and Culture
Credits: 2
Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4293 - Individual Research
Credits: 2
Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. Prerequisites: C- or better in SOCI 3311, SOCI 3312; sociology or markets and culture major; and instructor consent.

SOCI 4313 - The Sociological Tradition
Credits: 3
Introduction to theories of 19th- and early 20th-century sociologists. Prerequisites: Sociology major or sociology minor, and sophomore standing or above.

SOCI 4314 - Contemporary Sociological Theory
Credits: 3
Surveys recent trends in sociological theory. Prerequisites: Sociology major or sociology minor, and sophomore standing or above.

SOCI 4321 - The Politics of Immigration: A Global Perspective
Credits: 3
Utilizes a political and comparative approach to examine the causes and consequences of the movement of people

across state borders. Using case studies of the U.S. and other predominantly immigrant–receiving nations, the course explores immigration control via laws and policies, rights of non–citizens, political debates, nationalism, public opinion, immigration patterns, and experiences of immigrants in different national and cultural contexts.

SOCI 4335 - Social Movements and Collective Behavior
Credits: 3
The nature, causes, and consequences of social movements and collective behavior (e.g., crowds, riots, fads, public opinion, social movements, and revolution).

SOCI 4340 - Sociology of Culture
Credits: 3
Provides an overview of the sociological study of culture, focusing on the ways language, artifacts, ideas, identities, and narratives construct social reality.

SOCI 4351 - Nonprofit Fundraising and Grant Writing
Credits: 3
Examines sources of revenue for nonprofit organizations. Specific topics include fundraising, grant writing, the history of philanthropic giving in America, and donor dynamics. Prerequisite: SOCI 3321 or instructor approval.

SOCI 4353 - Nonprofit Management and Community Leadership
Credits: 3
Examines issues, strategies, and techniques related to leadership and management of third-sector organizations. Provides future nonprofit managers with an overview of a range of concerns and practices, while honing analytic skills. Prerequisite: SOCI 3321.

SOCI 4363 - The Administration of Justice
Credits: 3
Examination of law enforcement and criminal court systems, as well as the ideal of justice and public policy.

SOCI 4366 - Deviant Behavior
Credits: 3
Explores causes and consequences of deviant behavior and evaluates leading theories.

SOCI 4373 - Class, Race, and Gender Inequalities
Credits: 3
Explores the causes and consequences of the unequal distribution of power, prestige, and opportunity within society. Prerequisites: SOCI 3311 or SOCI 3312 and markets and culture major, sociology major, or sociology minor.

SOCI 4374 - Social Change
Credits: 3
Review of major social change theories emphasizing technology, modernization, and social power. Also, the impact of change on individuals and institutions, and possible solutions to resulting problems. Prerequisites: SOCI 1300 and sophomore standing or above.

SOCI 4376 - Social Organization of Professional Work
Credits: 3
Uses case studies to explore professions and professional work in the U.S., including medicine, law, and science. Emphasizes closure processes, recruitment, licensure, and threats to professional jurisdiction. Recommended: SOCI 3376 or 3377. Prerequisites: SOCI 3311; sociology or markets and culture majors only.

SOCI 4377 - Economic Sociology
Credits: 3
Students develop critical understanding of the social, economic, technological, and political forces shaping current global markets. Recommended: SOCI 3376 or SOCI 3377. Prerequisite: SOCI 3311.

SOCI 4382 - Environmental Sociology
Credits: 3
Capstone course that examines the relationships among society, culture, economy, and the environment. Prerequisite: SOCI 3311 or instructor approval.

SOCI 4384 - Sociology of Innovation: Knowledge, Technology, and Institutions
Credits: 3
Examines the social, organizational, and institutional bases of the development and diffusion of innovations, with a focus on the dynamics and debates concerning the generation of new knowledge and novel technologies. Recommended: SOCI 3376 or SOCI 3377. Prerequisite: SOCI 3311.

SOCI 4385 - Internship in Sociology
Credits: 3
Students arrange for part-time jobs in fields of interest to sociology and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4386 - Internship in Markets and Culture
Credits: 3
Students arrange for part-time jobs in fields of interest to markets and culture and relate their experiences to their academic curriculum through written organizational analyses under the guidance of an approved departmental faculty sponsor. Students apply for permission to enroll. Graded on a pass/fail basis only. Prerequisites: Sociology or markets and culture major, and sophomore standing or above.

SOCI 4387 - Internship in Nonprofit Organizations
Credits: 3
Places students in nonprofit organizations to gain necessary perspective and insight to operations within the third sector.

SOCI 4390 - Advanced Research Methods
Credits: 3
Supervised research experience collecting primary data in the field and/or secondary data and data analysis in the classroom. Students gain advanced understanding of specific methods, sampling and recruitment, data collection, and analysis. Prerequisite: SOCI 3311 or SOCI 3312.

SOCI 4393 - Individual Research
Credits: 3
Students develop an independent research project under the guidance of a department faculty sponsor, culminating in a written report. Prerequisites: C- or better in SOCI 3311, SOCI 3312; sociology or markets and culture major; and instructor consent.

SOCI 4396 - Individual Research for Distinction
Credits: 3
Students develop a substantial piece of independent and original research for graduation with distinction. Prerequisites: Minimum overall GPA of 3.000, minimum major GPA of 3.500, SOCI 3311 and SOCI 3312, sociology or markets and culture major, and junior standing or above.

SOCI 4399 - Special Topics: Sociology Seminar
Credits: 3
Seminar on selected sociological areas. May be repeated for credit if topics differ.

Statistical Science

www.smu.edu/statistics

Professor Daniel Heitjan, **Department Chair**

Professors: Ronald Butler, Jing Cao, Daniel Heitjan, Hon Keung Ng, Lynne Stokes, Sherry Wang
Associate Professors: Ian Harris (Director of Undergraduate Studies), Monnie McGee
Assistant Professors: Chul Moon, Raanju Sundararajan, Runmin Wang
Professor of Practice: Charles South
Senior Lecturer: Stephen Robertson
Lecturer: Mahesh Fernando

General Information

Statistical scientists specialize in the collection, analysis and interpretation of data. There is a rising demand for experts in statistical analysis and data analytics to make sense of the explosion of data from sensors, social media, cloud computing, medical instruments, business processes and surveys. The field of statistics will be increasingly important to academia, business and government because it provides a rational basis for data-driven decisions. An attractive aspect of the discipline of statistics is the wide variety of problems that it addresses:

- Government agencies such as the U.S. Census Bureau employ statisticians to conduct and analyze social and economic surveys; statisticians at the Food and Drug Administration have a critical role in the design of clinical trials and in the review of applications to market new drugs and devices.
- Manufacturing and related industries employ statisticians to work in areas such as quality control and process optimization.
- Banks and insurance companies hire statisticians to assist in modeling financial data.
- Medical schools, hospitals and pharmaceutical companies employ statisticians to work on research problems in clinical, population and basic science.

Statistical science is a collaborative, interdisciplinary subject that is valuable as a double major or minor.

Statistical Science, B.S.

The B.S. in statistical science prepares students for a career in data science, or for advanced studies in statistical science, such as graduate work in the field or in a related discipline.

Admission to a Statistical Science Major

Prior to declaring the statistical science major, students must either:

1. Pass STAT 2331 (Introduction to Statistical Methods) with a *C*- or better, and pass either MATH 1338 (Calculus II) or MATH 1340 (Consolidated Calculus) with a *C*- or better; or
2. Pass STAT 4340/CS 4340/EMIS 3340 (Statistical Methods for Engineers and Applied Scientists) with a *C*- or better.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Statistics (21 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- STAT 2331 - Introduction to Statistical Methods

- STAT 3300 - Applied Statistics: Regression
- STAT 3304 - Introduction to Statistical Computing
- STAT 3366 - Applied Regression Analysis and Data Visualization
- STAT 4340/EMIS 3340/CS 4340 - Statistical Methods for Engineers and Applied Scientists

Elective Courses (21 Credit Hours)

Five to seven courses (15-21 credit hours) from the following:

- Any STAT 3000-level course
- Any STAT 4000-level course
- STAT 6301 - Experimental Statistics I
- STAT 6302 - Experimental Statistics II
- STAT 6307 - Introduction to Statistical Computing
- STAT 6309 - Machine Learning Using Python
- STAT 6311 - Introduction to Mathematical Statistics
- STAT 6312 - Mathematical Statistics II
- ECO 5350 - Introductory Econometrics
- ECO 5375 - Economic and Business Forecasting (cannot count both ECO 5375 and STAT 4363 towards this requirement)
  Note: Enrollment in the STAT 6000-level courses listed above requires senior standing and departmental permission.

No more than two courses (6 credit hours) from the following (to reach a total of 21 credit hours in electives):

- EMIS 3360 - Operations Research
- EMIS 3361 - Stochastic Models in Operations Research
- Any EMIS 5000-level course
- Any MATH 3000-level or higher course
- Other approved courses, in consultation with the director of undergraduate studies

Total for the Major Only: 42 Credit Hours

Statistical Science Minor

A minor in statistical science is a valuable complement to majors in the natural and social sciences, engineering and business. Students planning careers that involve the collection, processing, description or analysis of quantitative information will enhance their career opportunities with a minor in statistical science. The minor requires at least 15 credit hours, as specified below.

Requirements for the Minor

Core Courses (6 Credit Hours)

- STAT 2331 - Introduction to Statistical Methods
- STAT 3300 - Applied Statistics: Regression

Elective Courses (9 Credit Hours)

Three courses from the following:

- Any STAT 3000-level or higher course
- PSYC 3301 - Research Methods in Psychology

Total: 15 Credit Hours

Statistical Science Courses

STAT 1395 - Special Topics
Credits: 3
An introduction to current topics in statistics and related fields.

STAT 2331 - Introduction to Statistical Methods
Credits: 3
A non-calculus based introduction to statistical methods, and how to use statistical concepts in decision making. Topics include descriptive statistics, simple linear regression, elementary probability theory, confidence intervals, and hypothesis tests. Introduces the use of Excel for statistical analysis.

STAT 3300 - Applied Statistics: Regression
Credits: 3
Emphasizes the analysis of data using state-of-the art statistical methods and specialized statistical software. Case studies form a major component of the course requirements. Prerequisite: STAT 2331 or ITOM 2305 .

STAT 3304 - Introduction to Statistical Computing
Credits: 3
Intended for undergraduate statistics majors and minors, and students from other disciplines who are interested in statistical computing. R and SAS, two widely used statistical languages for research and industry, are used throughout the course. Enables students to do essential computations and statistical analysis with commonly used statistical software. Prerequisite: STAT 2331 or equivalent.

STAT 3312 - Categorical Data Analysis
Credits: 3
Examines techniques for analyzing data that are described by categories or classes. Discusses classical chi-square tests and modern log-linear models. Emphasizes practical applications using computer calculations and graphics. Prerequisite: STAT 2331 or equivalent.

STAT 3341 - Statistical Learning via Sports Analytics
Credits: 3
Contains modules on ethical web-scraping, data visualization, and model building. Equips students with a number of tools including machine learning algorithms, data wrangling, and the use of R software, to carry out a complex sport analytics project from start to finish. Prerequisites: STAT 3300 and STAT 3304.

STAT 3366 - Applied Regression Analysis and Data Visualization
Credits: 3
Learning applied regression methods (multiple regression, logistic regression, log-linear models, and generalized linear models) to analyze real world datasets. Explores data visualization techniques to extract information and better understand the data. Prerequisites: STAT 3300 and STAT 3304.

STAT 4340 - Statistical Methods for Engineers and Applied Scientists
Credits: 3
Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Covers probability, probability distributions, data analysis, sampling distributions, estimation, and simple tests of hypothesis. Prerequisites: MATH 1337, MATH 1338.

STAT 4344 - Statistical Quality Control
Credits: 3
Statistics and simple probability are introduced in terms of problems that arise in manufacturing; their application to control of manufacturing processes. Acceptance sampling in terms of standard sampling plans: MIL-STD 105, MIL-STD 414, Dodge-Romig plans, continuous sampling plans, etc. Prerequisites: STAT 4340 or STAT 5340.

STAT 4363 - Applied Time Series Analysis
Credits: 3
When data are sampled at neighboring points in time, observations will likely be correlated. This course introduces the student to tools for modeling inherent correlation structure in time series data. Prerequisites: MATH 1338 or MATH 1340; and STAT 3300 or STAT 3304.

STAT 4367 - Data Science Capstone
Credits: 3
Students integrate knowledge from previous courses in order to complete a project of their own choosing, emphasizing a good understanding of the foundational knowledge of data science. Prerequisite: Reserved for data science majors and minors.

STAT 4370 - Survey Sampling
Credits: 3
Explores simple random sampling; stratified, systematic, subsampling; means, variances, confidence limits; finite population correction; and sampling from binominal populations. Examines principles of planning and conducting surveys. Prerequisite: STAT 2331 or permission of instructor.

STAT 4377 - Statistical Design and Analysis of Experiments
Credits: 3
Introduction to statistical principles in the design and analysis of industrial experiments. Completely randomized, randomized complete and incomplete block, Latin square, and Plackett–Burman screening designs. Complete and fractional factorial experiments. Descriptive and inferential statistics. Analysis of variance models. Mean comparisons. Prerequisite: STAT 2331. Undergraduate only, no graduate STAT credit.

STAT 4385 - Introduction to Nonparametric Statistics
Credits: 3
Statistical methods that do not require explicit distributional assumptions such as normality. Analyses based on ranks. One– and multi– sample procedures. Tests of randomness and independence. Prerequisites: STAT 2331 or equivalent.

STAT 4399 - Statistical Science in Practice
Credits: 3
Practical experience on projects dealing with the collection, analysis and interpretation of data. Three to four major projects, one of the student's design. Case studies from a variety of disciplines. Prerequisites: STAT 4340; statistical science major or minor with senior class standing.

STAT 5110 - Independent Study in Statistical Science
Credits: 1
Independent study of a selected topic in statistical science. Individual study under direction of a faculty member allowed for STAT 5110; group projects allowed for STAT 5310.

STAT 5310 - Independent Study in Statistical Science
Credits: 3
Independent study of a selected topic in statistical science. Individual study under direction of a faculty member allowed for STAT 5110; group projects allowed for STAT 5310.

World Languages and Literatures

www.smu.edu/worldlanguages

Associate Professor Elizabeth Russ, **Department Chair**

American Sign Language
Lecturer: Tiffany McCray

Arabic
Senior Lecturers: Liljana Elverskog, Omar Al-Rashdan

Chinese
Senior Lecturer: Wei Qu, Yan Xia
Lecturers: Xiao Hu

French
Professors: Thomas DiPiero, Dayna Oscherwitz
Associate Professors: Maxime Foerster, Hervé Tchumkam
Senior Lecturers: Gwendoline Aaron, Paola Buckley, Janet Dodd, Rachel Ney, Thierry Tirado, Omar Al-Rashdan
Lecturers: James Batchelor, Caroline Grubbs, Yuliya Kruchkova, Stefano Maranzana, Antoinette Williams-Tutt

German
Senior Lecturer: Stephen Grollman
Lecturer: Gizem Arlsan

Greek
Lecturer: Justin Michael Germain

Italian
Senior Lecturers: Brandy Alvarez, Damiano Bonuomo, Teresa Brentegani
Lecturers: Daniele Forlino, Stefano Maranzana

Japanese
Senior Lecturer: Keiko Flores

Latin
Lecturer: Justin Michael Germain
Instructor: Patti Rawlins

Spanish
Professor: Denise DuPont
Associate Professors: Olga Colbert, Luis Maldonado-Peña, Alberto Pastor, Elizabeth Russ, Rubén Sánchez-Godoy, Gabriela Vokic, Alicia Zuese
Senior Lecturers: Miroslava Detcheva, Maria Eguez, Susana Fernandez-Solera, Verónica León, Maria Villar Martin, Leticia McDoniel, Lourdes Molina, Joy Saunders
Lecturers: Michael Allred, Donna Binkowski, Sarah Bogard, Marlen Y. Collazo, Rachel Hall, Constantin Icleanu, Allison Larkin, Ana Acosta Melgarejo, Maria del Pilar Melgarejo, Talia Weltman-Cisneros

Russian
Lecturers: Tatiana Zimakova, Yuliya Kruchkova

General Information

The Department of World Languages and Literatures offers nine modern languages and two classical languages. Students may pursue a B.A. degree in French, French Studies, German, Spanish, and World Languages and minors in Arabic, Chinese, French, International Film Studies, Italian, Italian Area Studies, Japanese, Latin, Russian Area Studies, and Spanish. The B.A. in World Languages allows students to specialize in two different languages.

In pursuing language study, students gain communicative proficiency in a second or third language, as well as cultural proficiency and heightened global awareness. Courses taught toward a language major or minor emphasize all of these through the study of communication, culture, literature, linguistics, history, film, politics, business and other diverse aspects of language and culture. Students may also apply these skills through a language-based internship, either in Dallas or abroad, and through independent research.

SMU Abroad Rules for Credit. Students participating in an SMU Abroad term program may automatically count nine credit hours of courses taught in an approved program toward a B.A. and six credit hours toward a minor. Students studying abroad for a full year may apply 15 credit hours with specific approval from the area chair of the language.

Departmental Distinction

1. Overall 3.500 GPA by the middle of the junior year.
2. Overall 3.700 GPA in the major by the middle of the junior year.
3. Invitation of area faculty after the area as a whole has discussed the student's candidacy.
4. Two extra courses beyond the requirements for the major. One course must include a major research paper, to be undertaken and completed in the first term of the candidate's senior year.

Majors, Minors and Courses in World Languages

Requirements for a B.A. degree in French, French Studies, Spanish and World Languages, as well as for minors in Arabic, Chinese, French, German, International Film Studies, Italian, Italian Area Studies, Japanese, Latin, Russian Area Studies and Spanish are given below.

Arabic Minor

Requirements for the Minor

Core Courses (12 Credit Hours)

Either these or equivalent courses:

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II
- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)

Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East
- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East
- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 - French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

Arabic Courses

ARBC 1310 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 1320 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 1401 - Beginning Arabic I
Credits: 4
Introductory course for students with no knowledge of the language. The course presents essential vocabulary, grammar, and Arabic culture. Prerequisites: Reserved for students who have no previous Arabic experience or fewer than two years of Arabic and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

ARBC 1402 - Beginning Arabic II
Credits: 4
Continues the oral practice, reading, writing, grammar, and cultural studies begun in ARBC 1401. Students acquire a

substantial amount of vocabulary and idiomatic language. Prerequisite: Reserved for students who have completed ARBC 1401 (C- or higher) or its equivalent or have the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL Adviser is required for enrollment.

ARBC 2301 - Intermediate Arabic I
Credits: 4
Continues oral practice, reading, writing, grammar, and cultural studies. Students acquire a substantial amount of vocabulary, idiomatic language, and syntax that is more advanced. Prerequisite: Reserved for students who have completed ARBC 1402 with a C- or higher, or have the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

ARBC 2302 - Intermediate Arabic II
Credits: 4
Continues oral practice, reading, writing, grammar, and cultural studies. Students acquire a substantial amount of vocabulary, idiomatic language, syntax that is more advanced. Prerequisite: Reserved for students who have completed ARBC 2301 with a C- or higher or its equivalent or have the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

ARBC 2310 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 2320 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3301 - Advanced Arabic I
Credits: 3
Provides a thorough study of authentic materials in classical prose for mastery of classical Arabic. Involves extended readings and discussions of contemporary and historical cultural topics. Prerequisite: ARBC 2302 or its equivalent.

ARBC 3302 - Advanced Arabic II
Credits: 3
Provides a thorough study of authentic materials in classical prose for mastery of classical Arabic. Involves extended readings and discussions of contemporary and historical cultural topics. Prerequisite: ARBC 3301 (C- or higher) or its equivalent.

ARBC 3310 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3320 - Special Topics Abroad in Arabic
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
Credits: 3
Emphasizes cultural, artistic, and intellectual trends. Prerequisite: C- or better in ARBC 2302 or permission of instructor.

ARBC 3355 - Advanced Arabic Conversation
Credits: 3
Study of themes related to the Arabic experience. Primarily oriented toward conversation on topics of everyday life. Prerequisites: C- or better in ARBC 2302, or permission of the instructor.

ARBC 4312 - Advanced Media Arabic
Credits: 3
Introduces authentic texts and audio files from a wide variety of media sources and emphasizes the semantic and stylistic aspects of media Arabic rather than its grammar. Prerequisites: ARBC 3301 and ARBC 3302, or placement test, or departmental permission.

ARBC 4380 - Special Topics in Arabic
Credits: 3
Independent study in Arabic language, literature, and culture in selected topics, authors, and genres. Prerequisite: ARBC 3302 or permission of instructor.

ARBC 4381 - Special Topics in Arabic Literature and Culture
Credits: 3
Independent study of selected topics, authors, and genres in Arabic literature and culture. Prerequisite: ARBC 3302 or permission of instructor.

Chinese Minor

Study with SMU-in-China's summer program is strongly recommended.

Language Placement

Students testing into a course above CHIN 2402 will receive credit for eight hours towards the Chinese minor (CHIN 2401 and CHIN 2402) upon receiving a C- or better in their first advanced-level Chinese course. They will have to earn nine additional hours in SMU credit to complete the 17 hours for the minor: six hours from the 3000- or 4000-level language training options and three hours from the elective courses. Please note that a student who takes both CHIN 4381 and CHIN 4382 to fulfill their language training must choose a different elective course to complete the nine hours.

Requirements for the Minor

A minimum of 17 credit hours, with at least nine credit hours at the 3000 level and above.

Language Training (14 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following:

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Courses (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total: 17 Credit Hours

Chinese Courses

CHIN 1401 - Beginning Chinese

Credits: 4

Introduction to spoken and written Mandarin Chinese. Emphasizes intensive drills in sounds and tones, sentence structure, and a vocabulary of 500 characters. Students attend three weekly master classes plus 2 hours of practice in

small groups. Computer, video, and audio assignments are required. Prerequisites: Reserved for students who have no previous Chinese experience or fewer than two years of Chinese and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

CHIN 1402 - Beginning Chinese: Second Term
Credits: 4
Introduction to spoken and written Mandarin Chinese. Emphasizes intensive drills in sounds and tones, sentence structure, and a vocabulary of 500 characters. Students attend three weekly master classes plus 2 hours of practice in small groups. Computer, video, and audio assignments are required. Prerequisite: Reserved for students who have completed CHIN 1401 with a C- or higher or have the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

CHIN 2401 - Intermediate Chinese
Credits: 4
Enhances basic language skills learned in beginning Chinese but focuses on language proficiency, particularly in the areas of description, narration, correspondence, and comparisons based on situational context. Students attend four weekly classes. Video and audio materials are used. Prerequisite: C– or better in CHIN 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

CHIN 2402 - Intermediate Chinese: Second Term
Credits: 4
Enhances basic language skills learned in beginning Chinese but focuses on language proficiency, particularly in the areas of description, narration, correspondence, and comparisons based on situational context. Students attend four weekly classes. Video and audio materials are used. Prerequisite: C- or better in CHIN 2401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

CHIN 3311 - Advanced Chinese
Credits: 3
Emphasizes the refinement of skills in Mandarin Chinese through the study of selected topics in contemporary Chinese culture and society. Students develop the ability to express themselves in sustained oral and written forms. Prerequisite: Beginning and intermediate Chinese.

CHIN 3312 - Advanced Chinese, Second Term
Credits: 3
Enhances students' proficiency in Mandarin Chinese through a multimedia software program. Special concentration is given to China's current affairs through the use of authentic journalistic materials: television news and newspaper reports. Prerequisite: CHIN 3311.

CHIN 3321 - Special Topics Abroad in Chinese
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

CHIN 3322 - Special Topics Abroad in Chinese
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

CHIN 4379 - Special Topics in Chinese
Credits: 3
Advanced study of Chinese language, culture, or literature. Specific topic chosen by the instructor. Prerequisite: CHIN 3312 or consent of area chair.

CHIN 4380 - Directed Studies in Chinese
Credits: 3
Independent study in Chinese literature and culture in selected topics, authors, and genres. Permission of department required.

CHIN 4381 - Readings in Chinese Literature and Culture
Credits: 3
An upper-level course designed for students who have finished third-year Chinese. Students enhance their four language skills, especially reading and writing, through a wide variety of primary, unedited texts. Prerequisite: CHIN 3312 or consent of area chair.

CHIN 4382 - Chinese Culture and Society in Films
Credits: 3
An advanced course for students who have completed CHIN 4381. Enhancement of all four language skills through unedited texts and films from China and Taiwan. Prerequisite: CHIN 4381 or consent of area chair.

French Studies, B.A.

Courses are to be selected in consultation with the major adviser. Study with SMU-in-France is strongly recommended.

French Courses

All courses are conducted in French.

Language Courses	FREN 1401, FREN 1402, FREN 1601, FREN 2201, FREN 2302, FREN 2401, FREN 2455, FREN 3101, FREN 3356, FREN 3357, FREN 3358, FREN 3366, FREN 4185, FREN 4285, FREN 4385
Literature and Culture Courses	FREN 3365, FREN 3386, FREN 4362, FREN 4363, FREN 4364, FREN 4366, FREN 4367, FREN 4368, FREN 4369, FREN 4371, FREN 4372, FREN 4373, FREN 4374, FREN 4375, FREN 4376, FREN 4378, FREN 4382, FREN 4391, FREN 4395, FREN 4396

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (10 Credit Hours)

- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Three courses from the following: (9 Credit Hours)

- 3000-level and above FREN courses

Elective Courses (9 Credit Hours)

Three courses from the following:

One or more WL courses from the following list:

- WL 3308 - Introduction to General Linguistics
- WL 3309 - French Cinema: 1945 to the Present
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida
- WL 3317 - French Gastronomy and Culture
- WL 3326 - Introduction to French Cinema *(students may not take both FREN 3365 and WL 3326)*
- WL 3327 - Les Misérables
- WL 3328 - French Women Writers
- WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France
- WL 3388 - Future Worlds: French Science Fiction from the Enlightenment to the Present
- or another approved WL course

No more than two courses from the following list:

(Other courses, through a process of student petition, will be considered provided a substantial portion of the course is devoted to aspects of the cultures of the francophone world.)

Two additional WL courses from the above list, OR two courses from the following approved list:

- ARHS 1318 - Monsters, Mayhem, and Miracles: Art and Life in the Medieval World
- ARHS 1330 - The Visual Arts in France, 1500-1914
- ARHS 3320 - Medieval Art and Architecture
- ARHS 3343 - The Decorative Arts and the History of Dress in 18th-Century Europe
- ARHS 3346 - Paris Art and Architecture II
- ARHS 3348 - 18th-Century Art
- ARHS 4320 - Seminar on Medieval Art
- DANC 1301 - Beginning Ballet
- EDU 5121 - Field Experience I (with approval)
- EDU 5122 - Field Experience II (with approval)
- EDU 5123 - Field Experience III (with approval)
- EDU 5124 - Field Experience I: Secondary (with approval)
- EDU 5125 - Field Experience II: Secondary (with approval)
- EDU 5126 - Field Experience III: Secondary (with approval)
- EDU 5363 - Student Teaching (with approval)
- EDU 5364 - Student Teaching (with approval)
- EDU 5373 - Secondary Student Teaching (with approval)
- EDU 5374 - Secondary Student Teaching (with approval)
- FILM 3375 - Postwar European Cinema: 1945-Present
- HIST 3329 - Women in Early Modern Europe
- HIST 3332 - Ancient and Medieval France
- HIST 3334 - France Since 1789
- HIST 3352 - The Age of the Crusades
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3359 - Europe in the Age of the Reformation, 1520-1598
- HIST 3365 - Problems in European History
- HIST 3366 - Problems in European History
- HIST 3381 - The First World War and Its Impact
- HIST 4372 - History of France I
- HIST 4373 - History of Modern France
- MUHI 3302 - Survey of Music History II
- PLSC 3340 - Western European Politics
- PLSC 3341 - Introduction to Comparative Law

Total for the Major Only: 28 Credit Hours

French, B.A.

Courses are to be selected in consultation with the major adviser. Study with SMU-in-France is strongly recommended.

French Courses

All courses are conducted in French.

Language Courses	FREN 1401, FREN 1402, FREN 1601, FREN 2201, FREN 2302, FREN 2401, FREN 2455, FREN 3101, FREN 3356, FREN 4185, FREN 4285, FREN 3358, FREN 3366, FREN 3357, FREN 4385
Literature and Culture Courses	FREN 3365, FREN 3386, FREN 4362, FREN 4363, FREN 4364, FREN 4366, FREN 4367, FREN 4368, FREN 4369, FREN 4371, FREN 4372, FREN 4373, FREN 4374, FREN 4375, FREN 4376, FREN 4378, FREN 4382, FREN 4391, FREN 4395, FREN 4396

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (10 Credit Hours)

- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (18 Credit Hours)

Six advanced courses (3000 level and above), distributed as follows:

No more than four 3000-level FREN courses

At least two 4000-level FREN courses

No more than one WL course taught in the French Area, from the following list:

- WL 3308 - Introduction to General Linguistics
- WL 3309 - French Cinema: 1945 to the Present
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida
- WL 3317 - French Gastronomy and Culture
- WL 3326 - Introduction to French Cinema *(students may not take both FREN 3365 and WL 3326)*
- WL 3327 - Les Misérables
- WL 3328 - French Women Writers
- WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France
- WL 3388 - Future Worlds: French Science Fiction from the Enlightenment to the Present
- or another approved WL course

Total for the Major Only: 28 Credit Hours

French Minor

French Courses

All courses are conducted in French.

Language Courses	FREN 1401, FREN 1402, FREN 1601, FREN 2201, FREN 2302, FREN 2401, FREN 2455, FREN 3101, FREN 3356, FREN 3358, FREN 3366, FREN 3357, FREN 4185, FREN 4285, FREN 4385
Literature and Culture Courses	FREN 3365, FREN 3386, FREN 4362, FREN 4363, FREN 4364, FREN 4366, FREN 4367, FREN 4368, FREN 4369, FREN 4371, FREN 4372, FREN 4373, FREN 4374, FREN 4375, FREN 4376, FREN 4378, FREN 4391, FREN 4395, FREN 4396

Requirements for the Minor

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French or equivalent
- FREN 2302 - Intermediate French II

- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (6 Credit Hours)
Two courses from the following:

Option 1:
- Two 3000-level and above FREN courses

Option 2:
- One 3000-level and above FREN course

One WL course from the following list:
- WL 3308 - Introduction to General Linguistics
- WL 3309 - French Cinema: 1945 to the Present
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida
- WL 3317 - French Gastronomy and Culture
- WL 3326 - Introduction to French Cinema
- WL 3327 - Les Misérables
- WL 3328 - French Women Writers
- WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France
- WL 3388 - Future Worlds: French Science Fiction from the Enlightenment to the Present

Total: 20 Credit Hours

French Courses

FREN 1401 - Beginning French: Term One
Credits: 4
Stresses acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes per week. Prerequisites: Reserved for students who have no previous French experience or fewer than two years of French and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

FREN 1402 - Beginning French: Term Two
Credits: 4
Stresses acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes per week. Prerequisite: C– or better in FREN 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

FREN 1502 - Beginning French II with Review
Credits: 5
Extensive review of the first term of French, designed for students who have had French previously but who are not ready for FREN 1402. Prerequisites: Reserved for students who have previous French experience but did not place into FREN 1402. Approval from the WLL adviser is required for enrollment.

FREN 1601 - Accelerated Beginner French
Credits: 6
An accelerated, immersion beginner course taught in Paris that covers all the material in FREN 1401, FREN 1402. By application. Prerequisite: Permission of program director. (SMU Abroad)

FREN 2101 - Intermediate Conversation Practice
Credits: 1
Offered in the South of France, SMU-Abroad.

FREN 2102 - Intermediate Conversation Practice
Credits: 1
Offered in the South of France, SMU-Abroad.

FREN 2201 - France Today: Culture, Society, and Daily Life
Credits: 2
In conjunction with FREN 2401, a systematic exploration of diverse aspects of French life, involving both classroom study and on-site investigation. Emphasis on contextual language acquisition, both written and oral. Prerequisite: Permission of program director. (SMU-in-the-South of France only)

FREN 2302 - Intermediate French II
Credits: 3
Refinement of all four language skills, with special emphasis on oral proficiency. Includes study of oral presentations, viewing and discussion of films, vocabulary development, grammar review, short literary readings, and compositions. Three classes per week. Prerequisite: C– or better in FREN 2401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

FREN 2401 - Second–Year/Intermediate French
Credits: 4
Continues to strengthen the four language skills, with added emphasis on reading and writing. Five classes per week. Completes the second–year language requirement in French. Prerequisites: C– or better in FREN 1402 or FREN 1502, or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

FREN 2455 - Intermediate French II
Credits: 4
Refinement of all four language skills, with special emphasis on oral proficiency. Includes study of phonetics, oral presentations, viewing and discussion of films, vocabulary development, grammar review, short literary readings, and compositions. Five classes per week. Prerequisite: C- or better in FREN 2401.

FREN 3101 - French Phonics
Credits: 1
Perfecting French pronunciation: individual sounds, word groups, rhythmic patterns, intonation. Use of audiocassettes and interactive software. Prerequisite or corequisite: FREN 2302 or FREN 2401.

FREN 3321 - Special Topics Abroad in French
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

FREN 3322 - Special Topics Abroad in French
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

FREN 3356 - Advanced French II
Credits: 3
Refinement of all four language skills. Special emphasis on writing proficiency, particularly in the following areas: exposition, narration, description, correspondence, and literary analysis. Includes grammar review, oral presentations, dictionary research, and outside reading. Prerequisite: C– or better in FREN 2302 or permission of area chair.

FREN 3357 - French Stylistics
Credits: 3
Intensive hands-on study of advanced grammatical, syntactic, lexical, and rhetorical features of written (and formal spoken) French. Comparison of standard French and English styles. French-English and English-French translation. Prerequisites: C- or better in FREN 2302 or FREN 3356.

FREN 3358 - Advanced Spoken French
Credits: 3
Focuses on the development of oral and aural skills and topic-specific vocabulary. Includes readings and discussion of texts and commentaries on contemporary French society and culture, and viewing and discussion of feature films. Prerequisites: C- or better in FREN 2302 or FREN 3356.

FREN 3365 - Contemporary French Cinema
Credits: 3
An introduction to contemporary French Cinema from the 1980s until today. Prerequisites: C- or better in FREN 2302 or FREN 3356. Students may use either WL 3326 or FREN 3365 toward a major or minor.

FREN 3366 - Advanced Communication Skills: The French-Language Media
Credits: 3
An exploration of the many countries and regions of the French-speaking world through the use of films, videos, and the Internet, as well as expository texts from the French-language press and other media. Development of listening and reading comprehension, advanced conversational skills, and writing of short expository texts. Prerequisites: C- or better in FREN 2302 or FREN 3356.

FREN 3384 - Introduction to French Culture and Literature I
Credits: 3
Survey of French culture and literature from Charlemagne to Louis XIV. Prerequisite: FREN 3356.

FREN 3385 - Introduction to French Culture and Literature II
Credits: 3
Survey of French culture and literature from Louis XIV to late XIX century. Prerequisite: FREN 3356.

FREN 3386 - Introduction to French Culture and Literature III
Credits: 3
Survey of French and francophone social, cultural, and literary histories. Prerequisites: C- or better in FREN 3356.

FREN 4185 - Internship in French
Credits: 1
Offers experience in organizations where knowledge of French and the cultures of French-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

FREN 4285 - Internship in French
Credits: 2
Offers experience in organizations where knowledge of French and the cultures of French-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

FREN 4321 - Special Topics Abroad in French
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

FREN 4322 - Special Topics Abroad in French
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

FREN 4361 - French Decadence
Credits: 3
Introduction to French Decadent Literature (1880-1900). Students read canonic texts from the Decadent movement and learn about the main topics of this cultural movement. Prerequisites: A grade of C- or higher in FREN 4375 or permission of the instructor.

FREN 4362 - Literature on Human Rights: Thinking a Better World
Credits: 3
Dedicated to the reading, discussion, and analysis of a series of essays and fictions written in 19th century France. The literature focuses on social justice and human rights through four specific themes: women, proletarian workers, slaves, and artists. Students explore the literature's engagement in the illustration and discussion of human rights in the aftermath of the French Revolution. Prerequisites: B- or better in FREN 4375 or permission of instructor.

FREN 4363 - Genre Studies
Credits: 3
Examines the works of several authors as a means of understanding the nature and evolution of a particular genre. Prerequisite: FREN 4375.

FREN 4364 - Literary Movements
Credits: 3
Explores the conventions that shape a specific movement through a reading of representative texts by various authors. Topics vary. Prerequisite: FREN 4375.

FREN 4366 - Topics in French Literature
Credits: 3
The definition of a particular theme as elaborated by a group of writers, usually covering different times and genres. Specific topics vary. Prerequisite: FREN 4375.

FREN 4367 - Topics in French and Francophone Cinema
Credits: 3
A survey of French and Francophone cinema. Topics vary. Prerequisite: FREN 4375.

FREN 4368 - Major Authors
Credits: 3
A survey of major authors in French and Francophone literature. Prerequisites: C- or better in FREN 4375.

FREN 4369 - French Colonial and Postcolonial Cinema
Credits: 3
A study of the evolution of French attitudes toward colonialism and colonized peoples through film, with an emphasis on the colonization of North and West Africa. Prerequisite: FREN 4375.

FREN 4371 - Survey of French Literature: From the Middle Ages to the Revolution
Credits: 3
Overview of French literary history from the beginning to the end of the 18th century. Selection of texts from major dramatists, poets, and prose writers. Prerequisites: C- or better in FREN 4375.

FREN 4372 - Show Me Your Teeth: Vampires and Vampirism in French Literature
Credits: 3
Overview of French and Francophone literary history from the beginning of the 19th century to the present. Selection of texts from major dramatists, poets, and writers of prose fiction. Prerequisite: C- or better in FREN 4375.

FREN 4373 - French Civilization
Credits: 3
The evolution of French society, with emphasis on cultural, artistic, and intellectual trends. Prerequisites: C- or better in FREN 3356 or permission of area chair. (SMU-in-France)

FREN 4374 - French Civilization
Credits: 3
The evolution of French society, with emphasis on cultural, artistic, and intellectual trends. Prerequisites: C- or better in FREN 3356 or permission of area chair. (SMU-in-France)

FREN 4375 - Introduction to French History and Culture
Credits: 3
Survey of French political and cultural history from Roman Gaul to the Fifth Republic. Topics include characteristic institutions, social groups and individuals, and key cultural myths. Prerequisite: C- or better in FREN 3356 or permission of instructor and area chair.

FREN 4376 - Introduction to Francophone Cultures
Credits: 3
Introduction to cultures once colonized by France. An exploration of the history and impact of French colonization on North America, Africa, and the Caribbean and the relationship between these regions and France. Prerequisites: C– or better in FREN 3356 or permission of area chair.

FREN 4377 - France: Culture and Society
Credits: 3
Interdisciplinary approach to the diversity of French culture, society and history. Prerequisite: FREN 4375.

FREN 4378 - Literary Translation: Theory and Practice
Credits: 3
Exploring the relationship between interpretation and translation. Individual projects in a workshop setting. Prerequisite: FREN 3356.

FREN 4382 - Crime Scenes: Investigating Criminal Figures in 19th-Century French Literature
Credits: 3
An investigation of crime and punishment in 19th-century fiction and culture. Students read canonical novels alongside popular fiction and examine evolving social, political and scientific attitudes towards criminality in France. Prerequisite: FREN 4375.

FREN 4385 - Internship in French
Credits: 3
This course offers students experience in organizations where knowledge of French and the cultures of French-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in French of 3.300 or higher; and sponsorship of a professor and of the organization, agency or corporation.

FREN 4391 - Commercial French for International Trade
Credits: 3
An advanced course for international trade and communication. Prerequisite: C- or better in FREN 3356 or permission of area chair.

FREN 4395 - French and Francophone Women Writers and Society
Credits: 3
A survey of French and Francophone literature written by women. Prerequisite: FREN 4375.

FREN 4396 - Independent Study
Credits: 3
By invitation of the entire area only. Special project set up with the help of the area chair. Prerequisite: Permission of the department.

German Minor

Requirements for the Minor

Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (9 Credit Hours)

Three advanced GERM courses at the 3000 level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:

- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany
- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total: 18 Credit Hours

German Courses

GERM 1401 - Beginning German
Credits: 4
Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Classes meet 5 hours a week. Prerequisites: Reserved for students who have no previous German experience or fewer than two years of German and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

GERM 1402 - Beginning German II
Credits: 4
Stresses acquisition of basic skills: speaking, aural comprehension, reading, and writing. Classes meet 5 hours a week. Prerequisite: C– or better in GERM 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

GERM 1601 - Accelerated Beginning German
Credits: 6
Accelerated immersion course (SMU Abroad) covering material from GERM 1401-GERM 1402. For students with no previous knowledge of German (or for those were placed into GERM 1401 by the German placement exam) and who are studying abroad on a faculty-led SMU summer program in Germany. Students must apply to the summer program and receive approval from Program Director(s). Students who complete GERM 1601 with a C- or better can enroll in GERM 2311. A grade of D or better fulfills Second Language Requirement.

GERM 2311 - Culture, Grammar, and Literature
Credits: 4
Discussions and compositions based on literary and cultural texts, and review of grammar. Prerequisite: C– or better in GERM 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

GERM 2312 - Culture, Grammar, and Literature
Credits: 3
Discussions and compositions based on literary and cultural texts, and review of grammar. Prerequisite: C- or better

in GERM 2311 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

GERM 3311 - Talking and Writing About Modern Germany
Credits: 3
An advanced course intended to increase active command of the language. Utilizes a variety of short modern texts. Prerequisite: GERM 2312 or the equivalent.

GERM 3312 - Advanced German Composition
Credits: 3
Discussion of short contemporary texts; compositions on personal topics. Selective study of grammar. Prerequisite: GERM 3311 or permission of department.

GERM 3313 - Germany Today: People, Culture, and Society
Credits: 3
Explores current German culture; readings in newspapers and magazines to acquaint students with today's German cultural and political scene; and conversations, oral presentations, and compositions. Prerequisite: C- or better in GERM 3311 or permission of instructor.

GERM 3315 - German for Professional Purposes
Credits: 3
Students develop skills to conduct business in a German-speaking setting: business plans, correspondence, negotiation, analysis of the German economy and German vs. U.S. business practices. Corequisite: GERM 3311 or permission of instructor.

GERM 3320 - Contemporary German Culture
Credits: 3
An exploration of the German cultural scene through magazine and newspaper articles, short stories, television, and films from the postwar era to the present. Prerequisite: C- or better in GERM 3311 or permission of instructor.

GERM 3321 - Special Topics Abroad in German
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

GERM 3322 - Special Topics Abroad in German
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

GERM 3325 - Introduction to German Literature
Credits: 3
Includes works from major genres (lyric poetry, drama, narrative fiction), an overview of the history of German literature, and an introduction to analytical techniques and procedures. Prerequisite: C- or better in GERM 3311 or permission of instructor.

GERM 3330 - Great German Stories: Kafka, Mann, Wolf, and Others
Credits: 3
Short narrative forms from the beginning of the 20th century to the present: Mann, Kafka, Brecht, Boll, Seghers, Bachmann, Wolf, and others. Includes consideration of two postwar German literatures (the German Democratic Republic and the Federal Republic of Germany). Prerequisite: GERM 3311 or permission of instructor.

GERM 3370 - Advanced German Grammar and Usage
Credits: 3
Intensive study of advanced grammatical forms, syntactical structures, and usage distinctions in modern German.

Weekly short, written assignments. Not open to native speakers of the language. Prerequisite: C- or better in GERM 3311 or permission of instructor.

GERM 4185 - Internship in German
Credits: 1
Offers experience in organizations where knowledge of German and the cultures of German-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 4285 - Internship in German
Credits: 2
Offers experience in organizations where knowledge of German and the cultures of German-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 4310 - Middle Ages to Present: German Poetry
Credits: 3
Historical survey of poetic forms from medieval Minnesang through the Baroque and Sturm und Drang to Classicism, Romanticism, and 20th-century styles. Prerequisites: GERM 3320, GERM 3313 or permission of instructor.

GERM 4320 - Modern Drama
Credits: 3
Critical reading of dramatic works by major German, Austrian, and Swiss authors (Büchner, Schnitzler, Brecht, Dürrenmatt, Aichinger, Bachman, Müller, Jelineck, and others), with some attention to critical theory. Prerequisites: GERM 3313, GERM 3320 or permission of instructor.

GERM 4321 - Special Topics Abroad in German
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

GERM 4322 - Special Topics Abroad in German
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

GERM 4330 - 19th-Century Stories
Credits: 3
Short narrative forms from Romanticism through realism to fin-de-siècle Vienna: Grimm, Eichendorff, Kleist, Storm, Schnitzler, and others. Prerequisite: GERM 3320 or permission of instructor.

GERM 4350 - History, Culture, and Identity in Postwar German Film
Credits: 3
An examination of German films since 1945 from both German states, ending with the depiction of the unification in film, with continued emphasis on improvement of advanced German language skills. Prerequisite: GERM 3311 or permission of instructor.

GERM 4360 - Childhood and Youth in German Literature and Film
Credits: 3
Traces the representation of childhood and youth through German literature and film from the 19th century to the present. Prerequisite: GERM 3320, or GERM 3330, or permission of instructor

GERM 4370 - Memory and Victimization Discourses in Germanic Film and Literature Since 1945
Credits: 3
Introduces students to discourses in German-speaking lands related to World War II and the Holocaust through film and literature, and explores major historical developments in coming to terms with the Nazi past. Prerequisite: C- or better in GERM 3320 or permission of instructor.

GERM 4385 - Internship in German
Credits: 3
Offers experience in organizations where knowledge of German and the cultures of German-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in German of 3.000 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

GERM 5310 - Reading the Classics
Credits: 3
Narrative, poetry, and drama representing the German Enlightenment, Sturm und Drang, Classicism and Romanticism: Lessing, Goethe, Schiller, Kleist, Novalis, and others. Prerequisite: Any 4000-level course or permission of instructor.

GERM 5326 - Special Topics Abroad in German
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

GERM 5380 - Directed Studies
Credits: 3
Permission of department.

GERM 5381 - Directed Studies
Credits: 3
Independent study in German literature and culture in selected topics, authors, and genres. Prerequisite: Permission of the department.

International Film Studies Minor

Students pursuing an international film studies minor study international history, politics, and culture through film. Students also develop skills in visual and narrative analysis and in analytical writing. Students may choose to combine film courses from diverse film traditions or to specialize in one or two film traditions.

Students pursuing the minor in international film studies who are also pursuing a major in film and media arts must take one additional elective course from the approved electives list to complete the minor. This course may not be double-counted toward the major in film and media arts.

Requirements for the Minor

Core Courses (9 Credit Hours)

- FILM 1301 - Art of Film and Media
- FILM 2301 - Film and Media Criticism
- FILM 3351 - International Film History

Language Requirement: (3-4 Credit Hours)

Completion of the intermediate level in one language chosen from the following. Students, including heritage and native speakers, who place into a language above the 2000 level must complete one advanced language course at the 3000 level and above in order to pursue the minor in international film studies. If this course appears in the list of "Elective Courses," note that it cannot double count as an advanced language and an elective course.

- ARBC 2302 - Intermediate Arabic II
- CHIN 2402 - Intermediate Chinese: Second Term
- FREN 2302 - Intermediate French II
- GERM 2312 - Culture, Grammar, and Literature
- ITAL 2302 - Intermediate Italian: Second Term
- JAPN 2402 - Intermediate Japanese: Second Term
- LATN 2312 - Second-Year Latin: Second Term
- RUSS 2351 - Intermediate Russian II
- SPAN 2302 - Intermediate Spanish II
- SPAN 2323 - Intermediate Spanish II for Heritage Speakers

Elective Courses (6 Credit Hours)

Two courses from the following:

- CHIN 4382 - Chinese Culture and Society in Films
- FREN 3365 - Contemporary French Cinema
- GERM 4350 - History, Culture, and Identity in Postwar German Film
- HIST 2314 - On the Edges of Empire: India and Mexico/American Southwest
- SPAN 4365 - Spanish American Film
- WL 3309 - French Cinema: 1945 to the Present
- WL 3326 - Introduction to French Cinema
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3360 - Immigrant Representations in Contemporary Spanish Cinema
- WL 3371 - Latin America Through Film
- WL 3387 - Japanese Culture Through Film
- WL 3390 - Italian Cinema

Total: 18-19 Credit Hours

Italian Area Studies Minor

Italian Courses

All courses are conducted in Italian.

Literature Courses	ITAL 4322, ITAL 4323, ITAL 4324, ITAL 4325, ITAL 4367, ITAL 4368, ITAL 4381, ITAL 4382

Requirements for the Minor

Core Courses (16 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation
- One 4000-level ITAL course approved by adviser

One course from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Course (3 Credit Hours)

One from the following with adviser's approval:

- ARHS 3331 - Art and Culture of the Italian Renaissance
- ARHS 3341 - Portraiture and Selfhood
- ARHS 3332 - 16th-Century Italian Art
- HIST 3351 - History of Ancient Near East
- HIST 3358 - The Renaissance
- HIST 3359 - Europe in the Age of the Reformation, 1520-1598
- HIST 3361 - Roman History and the Roman Mind
- HIST 3365 - Problems in European History
- HIST 3366 - Problems in European History
- HIST 3376 - Intellectual History of Europe
- WL 2395 - Italian Culture
- WL 3319 - The Italian American Experience: An Introduction
- WL 3378 - Pompeii: Life Interrupted
- WL 3390 - Italian Cinema
- WL 3391 - Italian Literature in Translation: The Italian Novel
- WL 3393 - Dante's Poetic Vision
- WL 3394 - Boccaccio's Decameron and Medieval Storytelling
- WL 2355 - Literature and Theology: Catholic Thought From Augustine to the Present

Total: 19 Credit Hours

Italian Minor

Italian Courses

All courses are conducted in Italian.

Literature Courses	ITAL 4322, ITAL 4323, ITAL 4324, ITAL 4325, ITAL 4367, ITAL 4368, ITAL 4381, ITAL 4382

Requirements for the Minor

Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term

- ITAL 3355 - Advanced Italian Conversation

One course from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Courses (6 Credit Hours)

- Two 4000-level ITAL courses approved by adviser

Total: 19 Credit Hours

Italian Courses

ITAL 1401 - Beginning Italian: First Term
Credits: 4
Offers a communicative and interactive approach and stresses the acquisition of basic listening, reading, speaking, and writing skills, basic grammatical structures, vocabulary, idioms, and accurate pronunciation. Students attend three lecture meetings and two lab meetings, in which they read and listen to authentic materials, prepare written compositions and oral presentations, have conversational practice, and explore various aspects of Italian culture and cross-cultural comparisons between Italy and the United States. ITAL 1401 is also offered online through Intersessions as a 5-week, fully online course in which students meet synchronously virtually on a weekly basis for speaking activities, but complete the majority of the course asynchronously online. Prerequisites: ITAL 1401 is designed for students with no previous knowledge of Italian or for those were placed into 1401 by the Italian placement exam. Students seeking to enroll in ITAL 1401 who have not met the course prerequisites or do not have the appropriate placement exam score should contact the WLL Second Language adviser.

ITAL 1402 - Beginning Italian: Second Term
Credits: 4
Students review and learn fundamental aspects of basic Italian linguistic and grammatical structures (regular and irregular verbs in the present, present perfect, imperfect, future, conditional, and present subjunctive). Students attend three lecture meetings and two lab meetings, in which they further develop their linguistic and cultural awareness of Italian and build their vocabulary, listening, reading, writing, and speaking skills through communicative, interactive activities and assignments, including written compositions, oral presentations, and conversational practice. ITAL 1402 is also offered online through Intersessions as a 5-week, fully online course in which students meet synchronously virtually on a weekly basis for speaking activities, but complete the majority of the course asynchronously online. Prerequisite: C– or better in ITAL 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL Second Language adviser is required for enrollment. Students who have not met the course prerequisites for ITAL 1402 or do not have the appropriate placement exam score should contact the WLL Second Language adviser.

ITAL 1601 - Accelerated Beginning Italian, Semester I and Semester II
Credits: 6
Accelerated immersion course (SMU Abroad) covering material from ITAL 1401-ITAL 1402. For students with no previous knowledge of Italian (or for those were placed into ITAL 1401 by the Italian placement exam) and who are studying abroad on a faculty-led SMU summer program in Italy. Students must apply to the summer program and receive approval from Program Director(s). Students who complete ITAL 1601 with a grade of C- or better can enroll in ITAL 2401. A grade of D or better fulfills the Second Language Requirement.

ITAL 2302 - Intermediate Italian: Second Term
Credits: 3
Continued strengthening of all four language skills (listening, speaking, reading, writing). Computer, video, and audio assignments are required. Prerequisite: C– or better in ITAL 2401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

ITAL 2401 - Intermediate Italian: First Term
Credits: 4
Continues to strengthen the four language skills, with added emphasis on reading and writing. Students attend both a lecture and lab section for practice in small groups. Online, video, and audio assignments are required. Fulfills Language and Literature requirement. Prerequisite: C– or better in ITAL 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

ITAL 3320 - Special Topics Abroad in Italian
Credits: 3
Courses in SMU-approved international programs. Prerequisite: ITAL 2302 and prior departmental approval required.

ITAL 3321 - Special Topics Abroad in Italian
Credits: 3
Courses in SMU-approved international programs. Prerequisites: ITAL 2302 and prior departmental approval required.

ITAL 3355 - Advanced Italian Conversation
Credits: 3
An advanced course for majors and nonmajors intended to improve linguistic proficiency within the context of studying contemporary Italian movies and culture. Prerequisite: C- or better in ITAL 2302 or permission of the instructor.

ITAL 3357 - Grammar and Composition
Credits: 3
Analysis and imitation of short contemporary texts: letters, film reviews, articles, criticism, narratives. Development of oral and written proficiency. Selective study of grammar. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 3373 - Italian Culture
Credits: 3
The evolution of Italian society with emphasis on cultural, artistic, and intellectual trends. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 3385 - Italian for Business
Credits: 3
Students refine their language skills and cultural competence while studying European institutional and commercial structures. Emphasis is on Italian business customs, socioeconomics, commercial vocabulary, and cross-cultural comparisons. Prerequisite: C- or better in ITAL 2302 or permission of instructor.

ITAL 4185 - Internship in Italian
Credits: 1
Offers experience in organizations where knowledge of Italian and the cultures of Italian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: ITAL 2302; junior or senior standing; an overall GPA of 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

ITAL 4285 - Internship in Italian
Credits: 2
Offers experience in organizations where knowledge of Italian and the cultures of Italian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: ITAL 2302; junior or senior standing; an overall GPA of 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

ITAL 4320 - Special Topics Abroad in Italian
Credits: 3
Courses in SMU-approved international programs. Prerequisites: ITAL 2302 and prior departmental approval required.

ITAL 4321 - Special Topics Abroad in Italian
Credits: 3
Courses in SMU-approved international programs. Prerequisites: ITAL 2302 and prior departmental approval required.

ITAL 4322 - Modern Italian Literature I
Credits: 3
From the latter half of the 19th century to World War I. Covers Realism, Decadentism, and the Grotesque. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 4323 - Modern Italian Literature II
Credits: 3
Covers the latter half of the 19th century to World War I: realism, decadentism, and the grotesque and authors Verga, D'Annunzio, and Pirandello. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 4324 - Contemporary Italian Literature
Credits: 3
Covers the fascist period and World War II: introspection, society, and the problem of evil and authors Moravia, Pavese, Bassani, Buzzati, and Ginzburg. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 4325 - Italian Poetry Since Dante
Credits: 3
Historical survey of works of poetry presented in their original form, from the medieval Dolce Stil Novo movement to the poetic styles of the 20th century. Prerequisite: ITAL 3357 or permission of instructor.

ITAL 4367 - Italian Authors
Credits: 3
Italian authors from the Middle Ages to the modern age. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 4368 - Italian Authors: Contemporary
Credits: 3
Covers contemporary Italian fiction through a close study of selected contemporary short stories and one play. By interacting with literary content, students concentrate on the refinement of all four language skills: listening, reading, writing, and speaking. Prerequisite: ITAL 2302 or permission of the area chair.

ITAL 4381 - Tutorial for Juniors and Seniors: Directed Readings and Research
Credits: 3
Directed reading and research in specific literary topics or writers. Prerequisite: ITAL 3357 or permission of instructor.

ITAL 4382 - Tutorial for Juniors and Seniors: Directed Readings and Research
Credits: 3
Directed reading and research in specific literary topics or writers. Prerequisite: ITAL 3357 or permission of instructor.

ITAL 4385 - Internship in Italian
Credits: 3
Offers experience in organizations where knowledge of Italian and the cultures of Italian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: ITAL 2302; junior or senior standing; an overall GPA of 3.000 or higher; GPA in Italian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

Japanese Minor

Requirements for the Minor

Core Courses (14 Credit Hours)

- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Japanese Courses

JAPN 1401 - Beginning Japanese
Credits: 4
Focuses on oral and aural proficiency for daily communication situations, mastery of Japanese writing systems (hiragana, katakana, basic kanji), and foundational grammar. Prerequisites: Reserved for students who have no previous Japanese experience or fewer than two years of Japanese and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

JAPN 1402 - Beginning Japanese: Second Term
Credits: 4
Focuses on oral and aural proficiency for daily communication situations, mastery of Japanese writing systems (hiragana, katakana, basic kanji), and foundational grammar. Prerequisites: C- or better in JAPN 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

JAPN 1501 - Japanese at KGU, Level 1
Credits: 5
Emphasis on understanding of basic Japanese grammar, mastery of fundamental sentence patterns, and acquisition of 170 new kanji. Provides basic reading skills.

JAPN 2201 - Japanese at KGU, Level 3
Credits: 2

JAPN 2401 - Intermediate Japanese
Credits: 4
Focuses on developing and enriching literacy experience in Japanese through reading and writing narrative and descriptive texts, as well as conversing on personal topics in more complicated situations. Prerequisites: C– or better in JAPN 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

JAPN 2402 - Intermediate Japanese: Second Term
Credits: 4
Focuses on developing and enriching literacy experience in Japanese through reading and writing narrative and

descriptive texts, as well as conversing on personal topics in more complicated situations. Prerequisites: C- or better in JAPN 2401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

JAPN 2500 - Japanese at KGU, Level 2
Credits: 5

JAPN 3311 - Third-Year Japanese
Credits: 3
Emphasis on enhancing abilities in advanced reading and writing skills, and communicating with accuracy and grammatical complexity. Students also acquire the ability to use refined honorific forms in appropriate cultural contexts. Prerequisite: C- or better in JAPN 2402 or permission of area chair.

JAPN 3312 - Third-Year Japanese: Second Term
Credits: 3
Emphasis on enhancing abilities in advanced reading and writing skills, communicating with accuracy and grammatical complexity. Students also acquire the ability to use refined honorific forms in appropriate cultural contexts. Prerequisite: C- or better in JAPN 3311 or permission of area chair.

JAPN 3320 - Special Topics Abroad in Japanese
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

JAPN 3321 - Special Topics Abroad in Japanese
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

JAPN 3501 - Japanese at KGU, Level 2
Credits: 5
Further development of basic reading skills, with emphasis on an adequate command of complex sentence patterns. Acquisition of 200 new kanji.

JAPN 3600 - Studies in Japan
Credits: 6
Selected coursework at KGU, chosen in consultation with adviser. Equivalent SMU course numbers to be determined upon receipt of grades after the end of the term.

JAPN 3900 - Studies in Japan: Second Term
Credits: 9
Selected coursework at KGU, chosen in consultation with adviser. Equivalent SMU course numbers to be determined upon receipt of grades after the end of the term.

JAPN 4501 - Japanese at KGU, Level 3
Credits: 5
Grammar and reading, advanced. Vocabulary buildup and acquisition of reading and writing 200 new kanji.

JAPN 5501 - Japanese at KGU, Level 4
Credits: 5
Students read a variety of selected materials for better understanding of the Japanese culture and ways of thinking. Acquisition of a larger vocabulary and 250 new kanji.

Latin Minor

Requirements for the Minor

Core Courses (6 Credit Hours)

- LATN 2311 - Second-Year Latin or equivalent
- LATN 2312 - Second-Year Latin: Second Term or equivalent

Three or four courses from the following: (9-12 Credit Hours)

- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition
- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Latin Courses

LATN 1401 - Beginning Latin I

Credits: 4

Structures of the Latin language: vocabulary, grammar, and syntax. Also, introduction to Roman history and culture, and simple readings from Latin authors. Prerequisites: Reserved for students who have no previous Latin experience or fewer than two years of Latin and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

LATN 1402 - Beginning Latin II
Credits: 4
Structures of the Latin language: vocabulary, grammar, and syntax. Also, introduction to Roman history and culture, and simple readings from Latin authors. Prerequisites: C- or better in LATN 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

LATN 2311 - Second-Year Latin
Credits: 3
Readings from Latin prose authors: Caesar, Livy, Eutropius. Prerequisite: C– or better in LATN 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

LATN 2312 - Second-Year Latin: Second Term
Credits: 3
Readings from Roman prose and poetry (Caesar, Pliny, Ovid). Prerequisites: C- or better in LATN 2311 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

LATN 3185 - Internship in Latin
Credits: 1
Offers experience in organizations or institutions where knowledge of Latin is relevant: museums, libraries, historical archives, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

LATN 3285 - Internship in Latin
Credits: 2
Offers experience in organizations or institutions where knowledge of Latin is relevant: museums, libraries, historical archives, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

LATN 3323 - Latin Literature
Credits: 3
A thematic approach to Roman literature incorporating excerpts from a variety of authors and genres. Topics include aspects of Roman life and culture, history and politics, and religion and philosophy. Prerequisite: C- or better in LATN 2312 or permission of the area chair.

LATN 3324 - Advanced Latin Grammar and Composition
Credits: 3
Development of skills in analyzing and translating complex grammatical structures; practice in writing Latin with correct syntax and usage. Prerequisite: C- or better in LATN 2312 or permission of instructor.

LATN 3325 - Advanced Latin Readings and Composition
Credits: 3
This course concentrates on the Latin language as a powerful vehicle for communication and artistry through reading and writing. Students will study Latin texts on universal themes from various authors and times.

LATN 3326 - Advanced Latin Readings: Vergil
Credits: 3
Students experience the integration of storytelling with the artistry of language in the Aeneid, through which Vergil creates a national epic with political and cultural impact. Prerequisite: C- or better in LATN 2312 or permission of instructor.

LATN 3327 - Advanced Latin: Myth Via Ovid
Credits: 3
Students discover the classical inspiration for great works of Western civilization's art and literature through Ovid's recounting of mythological transformations and heroic tales in the poem "Metamorphoses." Prerequisite: C- or better in LATN 2312 or permission of instructor.

LATN 3330 - Special Topics Abroad in Latin
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

LATN 3331 - Special Topics Abroad in Latin
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

LATN 3385 - Internship in Latin
Credits: 3
Offers experience in organizations or institutions where knowledge of Latin is relevant: museums, libraries, historical archives, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Latin of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or institution.

Russian Area Studies Minor

Requirements for the Minor

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I
  or
- RUSS 3361 - Comparative Grammar

Elective Courses (6 Credit Hours)

Two courses from the following:

- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or
- RUSS 3362 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 15 Credit Hours

Russian Courses

RUSS 1401 - Beginning Russian I
Credits: 4
An overview of the structures of the Russian language, with emphasis on skills of comprehension, speaking, reading, and writing. Prerequisites: Reserved for students who have no previous Russian experience or fewer than two years of Russian and have the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

RUSS 1402 - Beginning Russian II
Credits: 4
An overview of the structures of the Russian language, with emphasis on skills of comprehension, speaking, reading, and writing. Prerequisite: C- or higher in RUSS 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

RUSS 2341 - Intermediate Russian I
Credits: 3
Strengthens the four language skills with added emphasis on reading and speaking. Undertakes a review of

grammatical and syntactic structures, using texts and materials from everyday life of today's Russia. Instruction is enhanced by the use of video materials and interactive software. Prerequisites: C– or higher in RUSS 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

RUSS 2351 - Intermediate Russian II
Credits: 3
The second part of the intermediate sequence, this course strengthens the four language skills with added emphasis on writing. Undertakes a review of grammatical and syntactic structures and seeks to employ them in writing, using texts and materials from everyday life of today's Russia. Instruction is enhanced by the use of video materials and interactive software. Prerequisites: C- or higher in RUSS 2341 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

RUSS 3202 - Practicum in Russian Conversation and Phonetics
Credits: 2

RUSS 3302 - Practicum in Russian Conversation and Phonetics
Credits: 3
(Russia, summer)

RUSS 3304 - Russian Grammar Practicum
Credits: 3
Held in Russia.

RUSS 3311 - Advanced Russian Conversation
Credits: 3
Intensive training in Russian composition with a thorough study of grammatical structure. Continued work on conversation and reading. Prerequisite: RUSS 2312 or consent of instructor.

RUSS 3312 - Advanced Russian Composition
Credits: 3
Continuation of advanced Russian grammar and syntax. Prerequisite: RUSS 3311 or consent of instructor.

RUSS 3321 - Special Topics Abroad in Russian
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

RUSS 3322 - Special Topics Abroad in Russian
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

RUSS 3323 - Practicum in Russian Culture
Credits: 3
Held in St. Petersburg.

RUSS 3341 - Advanced Russian I
Credits: 3
Develops advanced writing, speaking, listening, and reading skills with added emphasis on reading and speaking. Undertakes a review of grammatical and syntactic structures and seeks to employ them in reading and oral communication. Instruction is enhanced by the use of texts and materials from everyday life of today's Russia, video materials, and interactive software. Russian language work beyond the second-year level is done in multi-level workshops, organized by target skills, each including students with varying levels of experience and background with the Russian language. Permits an individualized approach, so that students completing varying assignments

work together in the same classroom. Prerequisites: C- or higher in RUSS 2351 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

RUSS 3351 - Advanced Russian II
Credits: 3
Continuation of advanced Russian sequence from RUSS 3341. Prerequisites: C- or higher in RUSS 3341 or approval from the WLL adviser is required for enrollment.

RUSS 3361 - Comparative Grammar
Credits: 3
For students who are fully bilingual in Russian and English. Provides a practical analysis of the similarities and differences between the two languages. Includes special problems of native speakers of Russian speaking English, translation in both directions, weekly compositions and translations, and essay exams. Prerequisite: 16 hours of Russian by examination.

RUSS 3362 - Comparative Grammar
Credits: 3
For students who are fully bilingual in Russian and English. Provides a practical analysis of the similarities and differences between the two languages. Includes special problems of native speakers of Russian speaking English, translation in both directions, weekly compositions and translations, and essay exams. Prerequisite: RUSS 3361 or permission of area chair.

RUSS 4185 - Internship in Russian
Credits: 1
Offers experience in organizations where knowledge of Russian and the cultures of Russian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

RUSS 4285 - Internship in Russian
Credits: 2
Offers experience in organizations where knowledge of Russian and the cultures of Russian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

RUSS 4380 - Directed Studies
Credits: 3
Independent study in Russian literature and culture, with selected topics, authors, and genres. Prerequisite: Permission of department.

RUSS 4381 - Directed Studies
Credits: 3
Independent study in Russian literature and culture, with selected topics, authors, and genres. Prerequisite: Permission of department.

RUSS 4385 - Internship in Russian
Credits: 3
Offers experience in organizations where knowledge of Russian and the cultures of Russian-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: Junior or senior standing; an overall GPA of 3.000 or higher; GPA in Russian of 3.300 or higher; and sponsorship of a professor and of the organization, agency, or corporation.

Spanish, B.A.

The Spanish major has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to a student's linguistic ability and are determined by the Spanish area adviser. As such, tracks and appropriate courses are selected in consultation with the Spanish area adviser. Study abroad in a Spanish-speaking country is strongly recommended.

Spanish Courses

First and Second Year Language Courses	SPAN 1401, SPAN 1402, SPAN 1502, SPAN 2401, SPAN 2302, SPAN 2310, SPAN 2323
3000-level Courses	SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355, SPAN 3357, SPAN 3373, SPAN 3374, SPAN 3375, SPAN 3377
4000-level Courses	SPAN 4346, SPAN 4352, SPAN 4355, SPAN 4357, SPAN 4358, SPAN 4365, SPAN 4375, SPAN 4385, SPAN 4391, SPAN 4395, SPAN 4396
5000-level Courses in Linguistics	SPAN 5340, SPAN 5341, SPAN 5342, SPAN 5343
5000-level Courses in Peninsular Literature	SPAN 5310, SPAN 5311, SPAN 5315, SPAN 5321, SPAN 5323, SPAN 5325, SPAN 5334, SPAN 5335, SPAN 5361, SPAN 5364, SPAN 5365, SPAN 5370
5000-level Courses in Spanish-American Literature	SPAN 5315, SPAN 5316, SPAN 5336, SPAN 5337, SPAN 5338, SPAN 5339, SPAN 5370, SPAN 5375

Track for Native Speakers. Native speakers will start coursework at the 4000 level. In consultation with the Spanish area chair, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358 instead of SPAN 2302 and SPAN 3358. From the second category above, they may select from SPAN 3373, SPAN 3374, SPAN 3375 or SPAN 4355 only.
Track for Non-Native Speakers: The requirements below reflect the non-native track.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Language Courses (6 Credit Hours)

- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Advanced Literature and Linguistics Courses (15 Credit Hours)

- SPAN 4357 - Introduction to Spanish Linguistics
- SPAN 4395 - Introduction to Hispanic Literature
- Three or more 5000-level literature and linguistics courses
  Note: Once enrolled in SPAN 5000-level courses, students are no longer eligible to enroll in SPAN 3000-level courses.

Elective Courses (6 Credit Hours)

- Two electives from the 3000, 4000, or 5000 level, as appropriate according to a student's track. Students on the non-native track may take up to one elective about the Spanish-speaking world taught in English, including WL 3301, WL 3303, WL 3306, WL 3324, WL 3342, WL 3360, WL 3364, WL 3371, WL 3372, WL 3373, WL 3375, WL 3376, WL 3377, WL 3382, WL 3396, or WL 3383. Students on the heritage and native tracks may take up to two such courses. Courses taught outside the Department of World Languages must be approved by the Spanish adviser on a case-by-case basis.

Total for the Major Only: 30 Credit Hours

Spanish Minor

The Spanish minor has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.

Spanish Courses

First and Second Year Language Courses	SPAN 1401, SPAN 1402, SPAN 1502, SPAN 2401, SPAN 2302, SPAN 2310, SPAN 2323
3000-level Courses	SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355, SPAN 3357, SPAN 3373, SPAN 3374, SPAN 3375, SPAN 3377
4000-level Courses	SPAN 4346, SPAN 4352, SPAN 4355, SPAN 4357, SPAN 4358, SPAN 4365, SPAN 4375, SPAN 4385, SPAN 4391, SPAN 4395, SPAN 4396
Advanced Courses in Linguistics	SPAN 5340, SPAN 5341, SPAN 5342, SPAN 5343
Advanced Courses in Peninsular Literature	SPAN 5310, SPAN 5311, SPAN 5315, SPAN 5321, SPAN 5323, SPAN 5325, SPAN 5334, SPAN 5335, SPAN 5361, SPAN 5364, SPAN 5365, SPAN 5370
Advanced Courses in Spanish-American Literature	SPAN 5315, SPAN 5316, SPAN 5336, SPAN 5337, SPAN 5338, SPAN 5339, SPAN 5370, SPAN 5375

Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

Requirements for the Minor

Core Courses (6 Credit Hours)

- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (9 Credit Hours)

Three additional advanced courses (3000-, 4000- and/or 5000- level)

Note: Once enrolled in a SPAN 5000-level course, students are no longer eligible to enroll in SPAN 3000-level courses.

Total: 18 Credit Hours

Spanish Courses

SPAN 1401 - Beginning Spanish I
Credits: 4
Develops insight into the interconnectedness of the fundamentals of language and their application to communication. Provides rudimentary linguistic skills (vocabulary and grammar) and an acquaintance with the Spanish–speaking world – tools that allow further study of Hispanic cultures. Focuses on the four linguistic skills (listening, speaking, reading, and writing). Each course is comprised of a fundamentals module (MWF) and an applications (TTH) module. Enrollment is required in both. Prerequisites: Reserved for students who have no previous Spanish experience or fewer than two years of Spanish and the appropriate placement exam score. Approval from the WLL adviser is required for enrollment.

SPAN 1402 - Beginning Spanish II
Credits: 4
Develops insight into the interconnectedness of the fundamentals of language and their application to communication. Provides rudimentary linguistic skills (vocabulary and grammar) and an acquaintance with the Spanish–speaking world – tools that allow further study of Hispanic cultures. Focuses on the four linguistic skills (listening, speaking, reading, and writing). Each course is comprised of a fundamentals module (MWF) and an applications (TTH) module. Enrollment is required in both. Reserved for students who have no previous Spanish experience or who have 2 years or less of Spanish. A student may not receive credit for both SPAN 1402 and SPAN 1502. Prerequisite: C– or better in SPAN 1401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

SPAN 1502 - Beginning Spanish with Intensive Review (Term II)
Credits: 5
Provides an intensive review of the first term of Spanish. Designed for students who have had Spanish previously but are not ready for SPAN 1402. To varying degrees, attention is devoted to all four linguistic skills (listening, speaking, reading, and writing). A student may not receive credit for both SPAN 1402 and SPAN 1502.

Prerequisites: Reserved for students who have previous Spanish experience but did not place into SPAN 1402. Approval from the WLL adviser is required for enrollment.

SPAN 1601 - Accelerated Beginner Spanish
Credits: 6
An immersion beginner course, taught abroad only, that covers all the material in both SPAN 1401 and SPAN 1402. By application. Prerequisite: Permission of program director.

SPAN 2302 - Intermediate Spanish II
Credits: 3
For students who are comfortable using Spanish in all timeframes (past, present, future) but who need to improve overall fluency and to fine tune grammatical details. Focuses on the development of oral and written expression and significant vocabulary expansion, and their application to authentic social contexts and cultural situations. Prerequisite: C– or better in SPAN 2401 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

SPAN 2310 - Intermediate Applied Spanish for Healthcare
Credits: 3
Focuses on development of oral and written expression and cultural competency in healthcare contexts. For students comfortable using Spanish in all timeframes who need to improve fluency and expand vocabulary. Prerequisite: C- or better in SPAN 2401 or equivalent.

SPAN 2311 - Intermediate Spanish I
Credits: 3
For students who are relatively comfortable expressing their personal needs and describing their immediate environment in Spanish. Moves students toward fluency through significant vocabulary expansion and mastery of advanced verbal and sentence structure. To varying degrees, attention is devoted to cultural competence and to the four linguistic skills (listening, speaking, reading, and writing). Prerequisite: C- or better in SPAN 1402 or equivalent. (SMU Abroad).

SPAN 2312 - Intermediate Spanish II
Credits: 3
For students who are comfortable using Spanish in all timeframes (past, present, future) but who need to improve overall fluency and to fine tune grammatical details. Focuses on the development of oral and written expression and significant vocabulary expansion, and their application to authentic social contexts and cultural situations. Prerequisite: C- or better in SPAN 2401 or equivalent. (SMU Abroad)

SPAN 2323 - Intermediate Spanish II for Heritage Speakers
Credits: 3
An intermediate course for heritage speakers with limited formal exposure to Spanish. Building on their linguistic and cultural backgrounds, students develop academic and linguistic skills through critical, culturally relevant projects. Prerequisite: Appropriate placement exam score or permission of the instructor. Enrollment permission from the Second Language Advisor is required to enroll.

SPAN 2401 - Intermediate Spanish I
Credits: 4
For students who are relatively comfortable expressing their personal needs and describing their immediate environment in Spanish. Moves students toward fluency through significant vocabulary expansion and mastery of advanced verbal and sentence structure. To varying degrees, attention is devoted to cultural competence and to the four linguistic skills (listening, speaking, reading, and writing). Prerequisite: C– or better in SPAN 1402/SPAN 1502 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

SPAN 3310 - Readings in Spanish and Spanish-American Literature
Credits: 3
Refinement of oral and written proficiency based on reading, discussion, and production of literary texts.

Prerequisites: SPAN 3358 and C- or better in SPAN 2302 or SPAN 2312. Not for heritage or native speakers of Spanish.

SPAN 3311 - Cultural Dialogues: Spain
Credits: 3
Students improve linguistic proficiency by surveying Spanish Peninsular culture and history. Course content varies and may cover topics such as Peninsular film, music, or art. Prerequisite: C- or better in SPAN 2302 or SPAN 2312. Prerequisite or corequisite: SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3312 - Cultural Dialogues: Mexico
Credits: 3
Students improve their linguistic proficiency by surveying Mexican culture and history. Course content varies; may include Mexican film, music, art, etc. Prerequisite: C- or better in SPAN 2302 or SPAN 2312. Prerequisite or corequisite: SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3313 - Cultural Dialogues: Latin America
Credits: 3
Improves linguistic proficiency by surveying Latin American culture and history. Course content varies; may include topics such as Latin American film, music, and art. Prerequisite: C- or better in SPAN 2302 or SPAN 2312. Prerequisite or corequisite: SPAN 3358. Not for heritage or native speakers of Spanish.

SPAN 3321 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 3322 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

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

SPAN 3357 - Spanish Phonetics
Credits: 3
A detailed analysis both in theory and practice of Spanish speech patterns, vowels, consonants, and intonation. Prerequisites: SPAN 3358 and C- or better in SPAN 2302 or SPAN 2312. Not for heritage or native speakers of Spanish.

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

SPAN 3373 - Topics in Spanish Civilization
Credits: 3
A topical exploration of Spanish-American culture and societies, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor. Prerequisite: SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 3374 - Topics in Spanish-American Civilization
Credits: 3
A topical exploration of Spanish-American culture and societies, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor. Prerequisite: SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 3375 - Topics in Spanish-Speaking Communities in the United States
Credits: 3
A survey of social and cultural issues surrounding Spanish-speaking communities in the U.S. that highlights selected topics. Prerequisite: SPAN 4358 (or can be taken concurrently) or C- or better in SPAN 3358.

SPAN 3377 - Spanish Civilization in Madrid
Credits: 3
An exploration of Spanish culture and society, with a multi-disciplinary perspective accentuated by local excursions in Madrid, with short visits to the culturally-significant cities of Barcelona, Granada, and Cordoba. Prerequisites: C- or better in SPAN 3358 (cannot be taken concurrently) or SPAN 4358 (can be taken concurrently).

SPAN 4321 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 4322 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 4346 - Texas-Mexico Borderlands: A Social, Political, Cultural, and Economic Story
Credits: 3
Focuses on the relationship between Mexico and US, and US-Mexico border(lands) as historical, political, and cultural space. Special focus on Mexico and Texas.

SPAN 4352 - Conversations and Community
Credits: 3
Advanced Spanish course that brings oral and written language to the center of students' learning by bringing them in contact with native Spanish speakers from a variety of Dallas communities. Includes fieldwork and contact hours in the classroom. Aimed at improving oral and listening skills. Prerequisite: C- or better in SPAN 3358 or SPAN 4358.

SPAN 4355 - Culture and Communication for Spanish Speakers
Credits: 3
An advanced course intended primarily for bilingual students whose home language is Spanish but whose dominant intellectual language is English. Because of its emphasis on cultural readings and communication skills, the course if suitable for native speakers who would like to broaden their knowledge of the language, Hispanic culture, and the major Hispanic groups in the U.S. Prerequisite: C- or better in SPAN 4358. Not for non-native speakers of Spanish; non-native speakers should take SPAN 3355.

SPAN 4357 - Introduction to Spanish Linguistics
Credits: 3
What is language? How do languages function? How is human language different from other communication systems? This course focuses on Spanish and also explores language acquisition, language contact, and bilingualism. Prerequisites: C- or better in SPAN 3358/SPAN 4358 and one of the following: SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355/SPAN 4355, SPAN 3373, SPAN 3374, or SPAN 3375.

SPAN 4358 - Advanced Spanish for Heritage Speakers
Credits: 3
Specifically designed for Spanish-English bilingual students who learned Spanish at home in the U.S. and who have oral proficiency but little or no formal training. Students reactivate their Spanish and develop it further to learn more about their language and cultural heritage, to acquire Spanish literacy skills, and to develop or expand their Spanish academic language skills. Non-native speakers of Spanish take SPAN 3358; native speakers of Spanish take SPAN 4357 or SPAN 4395. Prerequisite: Placement by Spanish placement exam. Enrollment permission from the Second Language Advisor is required to enroll.

SPAN 4365 - Spanish American Film
Credits: 3
A study of key cultural themes, historical contexts, and cinematography concepts through and for the analysis and understanding of Spanish American films. This course is an equivalent of WL 3371. Students may only take WL 3371 or SPAN 4365. Prerequisites: C- or better in SPAN 3358/SPAN 4358 and one of the following: SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355/SPAN 4355, SPAN 3373, SPAN 3374, or SPAN 3375.

SPAN 4375 - Spanish Lives
Credits: 3
Focuses on different interpretations of the life stories and writings of Spanish figures from the medieval period through the twentieth century. Students may not receive credit for both SPAN 4375 and WL 3324. Prerequisites: SPAN 3358 and one other 3000-level SPAN course.

SPAN 4385 - Internship in Spanish
Credits: 3
Offers experience in organizations where knowledge of Spanish and the cultures of Spanish-speaking countries is relevant: corporations involved in international business, government agencies, health clinics, etc. Prerequisites: GPA in Spanish of 3.300 or higher.

SPAN 4391 - Commercial Spanish for International Trade
Credits: 3
An advanced course in Spanish for international trade and communication. Prerequisites: Permission of instructor or C- or better in SPAN 3358/SPAN 4358 and one of the following: SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355/SPAN 4355, SPAN 3373, SPAN 3374, or SPAN 3375.

SPAN 4395 - Introduction to Hispanic Literature
Credits: 3
A study of the tools necessary for analysis and understanding of literature, and the application of these tools through the reading of Hispanic texts. Prerequisites: C- or better in SPAN 3358/SPAN 4358 and one of the following: SPAN 3310, SPAN 3311, SPAN 3312, SPAN 3313, SPAN 3355/SPAN 4355, SPAN 3373, SPAN 3374, or SPAN 3375.

SPAN 4396 - Leadership and Ethics in Literature
Credits: 3
Examines the intersection between leadership and ethics in selected literary texts and explores leadership in a variety of settings such as business, civic and political engagement, and education.

SPAN 5310 - Spanish Literature Before 1700
Credits: 3
An introduction to Spanish prose, drama, and lyric and narrative poetry through the Golden Age. Prerequisite: C- or better in SPAN 4395.

SPAN 5311 - Spanish Literature Since 1700
Credits: 3
Major writers and movements from 1700 to the present. Prerequisite: C- or better in SPAN 4395.

SPAN 5315 - Spanish-American Literature to 1888
Credits: 3
Literary figures and trends from the Spanish conquest to modernism. Prerequisite: C- or better in SPAN 4395.

SPAN 5316 - Spanish-American Literature Since 1888
Credits: 3
Literary figures and trends from modernism to the present. Prerequisite: C- or better in SPAN 4395.

SPAN 5321 - The Renaissance and Golden Age: Prose Fiction
Credits: 3
An exploration of the development of Spanish narrative through various modes of idealism, realism, and self-

reflection. Readings include works from Cervantes and Zayas, their contemporaries, and their literary predecessors. Prerequisite: C- or better in SPAN 4395.

SPAN 5323 - 19th-Century Prose Fiction
Credits: 3
Major prose writers of the realistic and naturalistic movements in the context of 19th-century political, social, and economic development. Prerequisite: C- or better in SPAN 4395.

SPAN 5325 - 20th-Century Peninsular Prose Fiction
Credits: 3
Examination of significant individuals, movements, themes, and works of 20th-century Spanish prose fiction (e.g., generation of 1898, exile of 1939, Francoism, transition to democracy, social realism, and postmodernism). Prerequisite: C- or better in SPAN 4395.

SPAN 5326 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 5327 - Special Topics Abroad in Spanish
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

SPAN 5334 - The Novel, Post-Civil War
Credits: 3
The development of the novel and short story in Spain from 1940 to the present. Readings from Cela, Delibes, Sanchez Ferlosio, Goytisolo, etc. Prerequisite: C- or better in SPAN 4395.

SPAN 5335 - Genre Studies (Spain)
Credits: 3
A study of the evolution of contemporary Spanish theatre within the context of dominant historical, social, and cultural trends. Prerequisite: C- or better in SPAN 4395.

SPAN 5336 - Spanish-American Novel
Credits: 3
Study of the Spanish-American novel through analysis of works from the 19th, 20th, and/or 21st centuries. Prerequisite: C- or better in SPAN 4395.

SPAN 5337 - Spanish-American Essay
Credits: 3
Students analyze essays from the 19th, 20th, and/or 21st centuries to explore key intellectual debates of Spanish America around topics such as race, gender, politics, history, and relations with the U.S. Prerequisite: C- or better in SPAN 4395.

SPAN 5338 - Spanish–American Short Story
Credits: 3
Study of the Spanish–American short story through analysis of works from the 19th, 20th, and/or 21st centuries. Students may only take WL 3373 or SPAN 5338. Prerequisite: C- or better in SPAN 4395.

SPAN 5339 - Spanish-American Poetry
Credits: 3
Major Spanish-American poets, with emphasis on the 20th century: Octavio Paz, Nicolas Guillen, Gabriela Mistral, Pablo Neruda, and others. Prerequisite: C- or better in SPAN 4395.

SPAN 5340 - The Structure of Spanish
Credits: 3
Explanation of Spanish syntactic structures using conventional and more recent treatments of Spanish grammar and

current developments in syntactic theory. Development of skills in analyzing Spanish syntax. Prerequisite: C- or better in SPAN 4357.

SPAN 5341 - Spanish Phonetics and Phonology
Credits: 3
Survey of phonetic (acoustic, physical) and phonological (distributional) properties of the Spanish sound system, and comparison with the English sound system. Introduces phonologically conditioned dialectal variation in the Spanish-speaking world. Prerequisite: C- or better in SPAN 4357.

SPAN 5342 - Linguistic Variation in the Spanish-Speaking World
Credits: 3
Introduction to language change and a panoramic overview of regionally and socially conditioned linguistic variation in Peninsular and Latin American Spanish, including topics such as language contact and bilingualism. Prerequisite: C- or better in SPAN 4357.

SPAN 5343 - Spanish as a Second Language: Principles of Second-Language Acquisition and Teaching
Credits: 3
Provides a background in issues pertaining to the acquisition of Spanish as a second language and addresses how findings from Spanish second-language acquisition research are applicable to the teaching of Spanish. Prerequisite: C- or better in SPAN 4357.

SPAN 5361 - Don Quixote: The Idea, the Character, the Book
Credits: 3
An exploration of Cervantes' masterpiece "Don Quixote" and its influence on art and society. Prerequisite: C- or better in SPAN 4395.

SPAN 5364 - Human Rights Issues in Contemporary Spanish Literature
Credits: 3
A study of human rights issues such as repression, torture, violence against women and the disabled, children's rights, genocide, and immigration as represented in contemporary Spanish literature. Prerequisite: C- or better in SPAN 4395.

SPAN 5365 - Contemporary Spanish Women Writers
Credits: 3
This course explores constructions of gender and identity in contemporary Spanish literature by women. Written texts, music, film, and documentary combine to offer multiple perspectives on the subject. Prerequisite: C- or better in SPAN 4395.

SPAN 5370 - Rewriting Discovery and Exploration in the Spanish Borderlands
Credits: 3
An examination of shifts in the articulation of discovery and exploration in writings treating the northern frontier of New Spain during the mid-to-late 16th century. Prerequisite: C- or better in SPAN 4395.

SPAN 5375 - Contemporary Fiction by Latin American Women Writers
Credits: 3
Explores constructions of gender and identity in 20th-century fiction by Latin American women. Examines novels, short stories, film, and critical texts. Prerequisite: C– or better in SPAN 4395. This course is the equivalent of HRTS 3383/WL 3383. Students may only take HRTS 3383/WL 3383 or SPAN 5375.

SPAN 5380 - Tutorial for Juniors and Seniors
Credits: 3
Special project arranged by the student with the help of a faculty adviser and the approval of the chair of the department.

SPAN 5381 - Tutorial for Juniors and Seniors
Credits: 3
Special project arranged by the student with the help of a faculty adviser and the approval of the chair of the department.

World Languages: Chinese, B.A.

The B.A. in World Languages allows students to specialize in two languages. In the World Languages: Chinese major, students choose Chinese as the primary language and one secondary language (Arabic, French, German, Italian, Japanese, Latin, Russian or Spanish). Students must complete at least 23 credit hours of coursework beyond the first-year sequence in the Chinese primary language and at least 16 credit hours in the secondary language. The total number of credit hours depends on the languages studied.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (14 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following:

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Courses (9 Credit Hours)

Three courses from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- HIST 2315 - Modern China
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total for the Major Only: 23 Credit Hours + Hours Required for Secondary Language

Secondary Language

Arabic

Required Courses

Core Courses (12 Credit Hours)

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II

- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)
Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East
- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East
- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

French

Required Courses

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French (or equivalent)
- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (6 Credit Hours)
Two from 3000-level or 4000-level FREN courses
Total: 20 Credit Hours

German

Required Courses

Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (9 Credit Hours)
Three advanced GERM courses at the 3000-level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:

- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany

- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total: 18 Credit Hours

Italian

Required Courses

Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation

One course from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Course (3 Credit Hours)

One 4000-level ITAL course approved by adviser

Total: 16 Credit Hours

Japanese

Required Courses

Core Courses (14 Credit Hours)

- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Latin

Required Courses

Core Courses (6 Credit Hours)

- LATN 2311 - Second-Year Latin
- LATN 2312 - Second-Year Latin: Second Term

Three or four courses from the following: (9-12 Credit Hours)

- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition

- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Russian

Required Courses

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I
  or
- RUSS 3361 - Comparative Grammar

Three courses from the following: (9 Credit Hours)

- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or

- RUSS 3361 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 18 Credit Hours

Spanish

Spanish has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.
Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

Required Courses

Core Courses (10 Credit Hours)

- SPAN 2401 - Intermediate Spanish I
- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (6 Credit Hours)

- Two additional advanced courses (3000-, 4000-, and/or 5000-level)

Total: 19 Credit Hours

World Languages: French, B.A.

The B.A. in World Languages allows students to specialize in two languages. In the World Languages: French major, students choose French as the primary language and one secondary language (Arabic, Chinese, German, Italian, Japanese, Latin, Russian or Spanish). Students must complete at least 26 credit hours of coursework beyond the first-year sequence in the French primary language and at least 16 credit hours in the secondary language. The total number of credit hours depends on the languages studied.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French or equivalent
- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (12 Credit Hours)

- Four 3000- or 4000-level FREN courses. Students may replace one FREN elective with an approved WL course from the following list:
- WL 3308 - Introduction to General Linguistics
- WL 3309 - French Cinema: 1945 to the Present
- WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida
- WL 3317 - French Gastronomy and Culture
- WL 3326 - Introduction to French Cinema
- WL 3327 - Les Misérables
- WL 3328 - French Women Writers
- WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
- WL 3330 - Migration, Occupation, and Independence in North African Cinema
- WL 3341 - The Failure of Humanity in Rwanda
- WL 3355 - Tradition, Community, and Identity in African Cinema
- WL 3362 - Postcolonial France
- WL 3388 - Future Worlds: French Science Fiction from the Enlightenment to the Present

Total for the Major Only: 26 Credit Hours + Hours Required for Secondary Language

Secondary Language

Arabic

Required Courses

Core Courses (12 Credit Hours)

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II
- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)

Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East

- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East
- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

Chinese

Required Courses

Core Courses (8 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following: (6 Credit Hours)

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- HIST 2315 - Modern China
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total: 17 Credit Hours

German

Required Courses

Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (9 Credit Hours)

Three advanced GERM courses at the 3000-level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:

- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany
- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total: 18 Credit Hours

Italian

Required Courses

Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation

One course from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Course (3 Credit Hours)

One 4000-level ITAL course approved by adviser

Total: 16 Credit Hours

Japanese

Required Courses

Core Courses (14 Credit Hours)

- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Latin

Required Courses

Core Courses (6 Credit Hours)

- LATN 2311 - Second-Year Latin
- LATN 2312 - Second-Year Latin: Second Term

Three or four courses from the following: (9-12 Credit Hours)

- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition
- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Russian

Required Courses

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I

or
- RUSS 3361 - Comparative Grammar

Three courses from the following: (9 Credit Hours)
- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or
- RUSS 3361 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 18 Credit Hours

Spanish

Spanish has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.
Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

Required Courses

Core Courses (10 Credit Hours)
- SPAN 2401 - Intermediate Spanish I
- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)
- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation

or

- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (6 Credit Hours)

- Two additional advanced courses (3000-, 4000-, and/or 5000-level)

Total: 19 Credit Hours

World Languages: German, B.A.

The B.A. in World Languages allows students to specialize in two languages. In the World Languages: German major, students choose German as the primary language and one secondary language (Arabic, Chinese, French, Italian, Japanese, Latin, Russian or Spanish). Students must complete at least 24 credit hours of coursework beyond the first-year sequence in the German primary language and at least 16 credit hours in the secondary language. The total number of hours depends on the languages studied.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (15 Credit Hours)

- Five advanced GERM courses at the 3000-level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:
- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany
- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total for the Major Only: 24 Credit Hours + Hours Required for Secondary Language

Secondary Language

Arabic

Required Courses

Core Courses (12 Credit Hours)

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II
- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)

Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East
- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran

- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East
- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

Chinese

Required Courses

Core Courses (8 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following: (6 Credit Hours)

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- HIST 2315 - Modern China
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total: 17 Credit Hours

French

Required Courses

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French (or equivalent)
- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics

- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (6 Credit Hours)
Two from 3000-level or 4000-level FREN courses
Total: 20 Credit Hours

Italian

Required Courses
Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation

One course from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Course (3 Credit Hours)
One 4000-level ITAL course approved by adviser
Total: 16 Credit Hours

Japanese

Required Courses
Core Courses (14 Credit Hours)

- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)
One course from the following:

- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Latin

Required Courses
Core Courses (6 Credit Hours)

- LATN 2311 - Second-Year Latin
- LATN 2312 - Second-Year Latin: Second Term

Three or four courses from the following: (9-12 Credit Hours)

- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition

- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Russian

Required Courses

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I
  or
- RUSS 3361 - Comparative Grammar

Three courses from the following: (9 Credit Hours)

- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or

- RUSS 3361 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 18 Credit Hours

Spanish

Spanish has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.
Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

Required Courses

Core Courses (10 Credit Hours)

- SPAN 2401 - Intermediate Spanish I
- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (6 Credit Hours)

- Two additional advanced courses (3000-, 4000-, and/or 5000-level)

Total: 19 Credit Hours

World Languages: Italian, B.A.

The B.A. in World Languages allows students to specialize in two languages. In the World Languages: Italian major, students choose Italian as the primary language and one secondary language (Arabic, Chinese, French, German, Japanese, Latin, Russian or Spanish). Students must complete at least 22 credit hours of coursework beyond the first-year sequence in the Italian primary language and at least 17 credit hours in the secondary language. The total number of hours depends on the languages studied.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term
- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation

One from the following:

- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Courses (9 Credit Hours)

- Three 4000-level ITAL courses approved by adviser

Total for the Major Only: 22 Credit Hours + Hours Required for Secondary Language

Secondary Language

Arabic

Required Courses

Core Courses (12 Credit Hours)

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II
- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)

Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East
- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East

- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

Chinese

Required Courses

Core Courses (8 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following: (6 Credit Hours)

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films
- HIST 2315 - Modern China
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total: 17 Credit Hours

French

Required Courses

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French (or equivalent)
- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (6 Credit Hours)
Two from 3000-level or 4000-level FREN courses
Total: 20 Credit Hours

German

Required Courses
Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (9 Credit Hours)
Three advanced GERM courses at the 3000-level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:

- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany
- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total: 18 Credit Hours

Japanese

Required Courses
Core Courses (14 Credit Hours)

- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)
One course from the following:

- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Latin

Required Courses
Core Courses (6 Credit Hours)

- LATN 2311 - Second-Year Latin
- LATN 2312 - Second-Year Latin: Second Term

Three or four courses from the following: (9-12 Credit Hours)

- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition

- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Russian

Required Courses

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I
  or
- RUSS 3361 - Comparative Grammar

Three courses from the following: (9 Credit Hours)

- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or

- RUSS 3361 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 18 Credit Hours

Spanish

Spanish has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.
Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

Required Courses

Core Courses (10 Credit Hours)

- SPAN 2401 - Intermediate Spanish I
- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (6 Credit Hours)

- Two additional advanced courses (3000-, 4000-, and/or 5000-level)

Total: 19 Credit Hours

World Languages: Spanish, B.A.

The B.A. in World Languages allows students to specialize in two languages. In the World Languages: Spanish major, students choose Spanish as the primary language and one secondary language (Arabic, Chinese, French, German, Italian, Japanese, Latin or Russian). Students must complete at least 28 credit hours of coursework beyond the first-year sequence in the Spanish primary language and at least 16 credit hours in the secondary language. The total number of hours depends on the languages studied.

Spanish has three tracks, for non-native, heritage and native speakers of Spanish. These categories refer to the students' linguistic ability and are determined by the Spanish area adviser.
Track for Native Speakers: Native speakers will start coursework at the 4000 level. In consultation with the Spanish area adviser, native speakers who have not had formal academic training in written Spanish may begin coursework with SPAN 4358; otherwise, they should begin with SPAN 4357 or SPAN 4395.
Track for Heritage Speakers: Heritage speakers must take SPAN 2323 and SPAN 4358, instead of SPAN 2302 and SPAN 3358. From the second category below, they may select from SPAN 3373, SPAN 3374, SPAN 3375, or SPAN 4355 only.
Track for Non-Native Speakers: Non-native speakers may take SPAN 3355 before SPAN 3358 and/or may take one of the following concurrently with SPAN 3358: SPAN 3311, SPAN 3312, SPAN 3313, or SPAN 3355.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (10 Credit Hours)

- SPAN 2401 - Intermediate Spanish I or equivalent
- SPAN 2302 - Intermediate Spanish II or equivalent

- SPAN 3358 - Advanced Spanish
  or
- SPAN 4358 - Advanced Spanish for Heritage Speakers

One course from the following: (3 Credit Hours)

- SPAN 3310 - Readings in Spanish and Spanish-American Literature
- SPAN 3311 - Cultural Dialogues: Spain
- SPAN 3312 - Cultural Dialogues: Mexico
- SPAN 3313 - Cultural Dialogues: Latin America

- SPAN 3355 - Spanish Conversation
  or
- SPAN 4355 - Culture and Communication for Spanish Speakers

- SPAN 3357 - Spanish Phonetics
- SPAN 3373 - Topics in Spanish Civilization
- SPAN 3374 - Topics in Spanish-American Civilization
- SPAN 3375 - Topics in Spanish-Speaking Communities in the United States

Elective Courses (15 Credit Hours)

- Five additional advanced courses (3000-, 4000-, and/or 5000-level)

Note: Once enrolled in a SPAN 5000-level course, students are no longer eligible to enroll in SPAN 3000-level courses.

Total for the Major Only: 28 Credit Hours + Hours Required for Secondary Language

Secondary Language

Arabic

Required Courses

Core Courses (12 Credit Hours)

- ARBC 2301 - Intermediate Arabic I
- ARBC 2302 - Intermediate Arabic II
- ARBC 3301 - Advanced Arabic I
- ARBC 3302 - Advanced Arabic II

Elective Courses (6 Credit Hours)

Two from the following, with at least one course at the 3000-level and above:

- ANTH 3359 - Peoples and Cultures of the Middle East
- ARBC 3331 - Arabic Culture: The Cultural Evolution of Arab Societies
- ARBC 3355 - Advanced Arabic Conversation
- ARBC 4312 - Advanced Media Arabic
- ARHS 1319 - Architecture of the Islamic World
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- HIST 2379 - A History of Islamic Empires
- HIST 3383 - A History of Iran
- HIST 3389 - Problems in Middle Eastern History
- HIST 3390 - Modern Middle East: 1914 to Present
- HIST 3396 - Coexistence and Conflict in the Middle East
- PLSC 4340 - Special Studies in Comparative Governments and Politics *(when offered in topics related to the Middle East; see area chair for approval)*
- PLSC 4345 - Islam and Politics
- RELI 3329 - Islam
- RELI 3362 - Islam and the West
- WL 3329/HRTS 4374 French Muslim Citizens and the Algerian War: The Harkis
- WL 3355 - Tradition, Community, and Identity in African Cinema

Total: 18 Credit Hours

Chinese

Required Courses

Core Courses (8 Credit Hours)

- CHIN 2401 - Intermediate Chinese
- CHIN 2402 - Intermediate Chinese: Second Term

Two courses from the following: (6 Credit Hours)

- CHIN 3311 - Advanced Chinese
- CHIN 3312 - Advanced Chinese, Second Term
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

Elective Course (3 Credit Hours)

One course from the following:

- ANTH 3323 - East Asia in Motion
- CHIN 4379 - Special Topics in Chinese
- CHIN 4380 - Directed Studies in Chinese
- CHIN 4381 - Readings in Chinese Literature and Culture
- CHIN 4382 - Chinese Culture and Society in Films

- HIST 2315 - Modern China
- HIST 3318 - History of Chinese Political and Social Thought
- HIST 3393 - China in Revolution
- HIST 3395 - Problems in Asian History
- HIST 3398 - Women in Chinese History
- PLSC 3352 - Chinese Politics
- PLSC 4386 - International Relations of East Asia
- RELI 3377 - The Cultural History of Tibet
- RELI 3378 - Religions of China
- WL 3310 - Transnational Chinese Cinema
- WL 3325 - Perspective on Modern China
- WL 3397 - China Before 1850

Total: 17 Credit Hours

French

Required Courses

Core Courses (14 Credit Hours)

- FREN 2401 - Second–Year/Intermediate French (or equivalent)
- FREN 2302 - Intermediate French II
- FREN 3101 - French Phonics
- FREN 3356 - Advanced French II
- FREN 4375 - Introduction to French History and Culture

Elective Courses (6 Credit Hours)

Two from 3000-level or 4000-level FREN courses

Total: 20 Credit Hours

German

Required Courses

Core Courses (9 Credit Hours)

- GERM 2311 - Culture, Grammar, and Literature
- GERM 2312 - Culture, Grammar, and Literature
- GERM 3311 - Talking and Writing About Modern Germany

Elective Courses (9 Credit Hours)

Three advanced GERM courses at the 3000-level and above, approved by adviser. One English-language course directly related to German culture and society may be taken from the following:

- ENGL 3385 - Literature of the Holocaust
- HIST 3328 - History of Modern Germany
- HIST 3363 - The Holocaust
- RELI 3321 - Religion and the Holocaust
- WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
- WL 3369 - Perspectives on Modern Germany
- WL 3379 - Modern German Culture From the Enlightenment to the Present

Total: 18 Credit Hours

Italian

Required Courses

Core Courses (13 Credit Hours)

- ITAL 2401 - Intermediate Italian: First Term

- ITAL 2302 - Intermediate Italian: Second Term
- ITAL 3355 - Advanced Italian Conversation

One course from the following:
- ITAL 3357 - Grammar and Composition
- ITAL 3373 - Italian Culture
- ITAL 3385 - Italian for Business

Elective Course (3 Credit Hours)
One 4000-level ITAL course approved by adviser
Total: 16 Credit Hours

Japanese

Required Courses
Core Courses (14 Credit Hours)
- JAPN 2401 - Intermediate Japanese
- JAPN 2402 - Intermediate Japanese: Second Term
- JAPN 3311 - Third-Year Japanese
- JAPN 3312 - Third-Year Japanese: Second Term

Elective Course (3 Credit Hours)
One course from the following:
- ANTH 3323 - East Asia in Motion
- FILM 3359 - National Cinemas
- HIST 3395 - Problems in Asian History
- PLSC 3346 - Japanese Politics and Society
- PLSC 4386 - International Relations of East Asia
- WL 3387 - Japanese Culture Through Film

Total: 17 Credit Hours

Latin

Required Courses
Core Courses (6 Credit Hours)
- LATN 2311 - Second-Year Latin
- LATN 2312 - Second-Year Latin: Second Term

Three or four courses from the following: (9-12 Credit Hours)
- LATN 3323 - Latin Literature
- LATN 3324 - Advanced Latin Grammar and Composition
- LATN 3325 - Advanced Latin Readings and Composition
- LATN 3326 - Advanced Latin Readings: Vergil
- LATN 3327 - Advanced Latin: Myth Via Ovid

One course from the following (if only three advanced Latin courses are taken): (3-4 Credit Hours)
- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
- ARHS 1303 - Introduction to Western Art I
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome

- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- CLAS 2311 - Myth and Thought in the Ancient World
- GRE 1401 - Beginning Ancient Greek I
- GRE 1402 - Beginning Ancient Greek II
- HIST 2350 - Life in the Medieval World, A.D. 306 to 1095
- HIST 2351 - Life in the Medieval World, 1095 to 1350
- HIST 2352 - Greek Mythology and History
- HIST 2354 - Ancient Foundations of Modern Civilization
- HIST 3350 - A History of Ancient Egypt
- HIST 3353 - The History of Ancient Greece
- HIST 3354 - Warfare and Diplomacy in Antiquity
- HIST 3355 - Class and Gender in Ancient Society
- HIST 3361 - Roman History and the Roman Mind
- PHIL 3351 - History of Western Philosophy (Ancient)
- RELI 3326 - New Testament
- RELI 3371 - The World of the New Testament
- WL 3378 - Pompeii: Life Interrupted
- WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film

Total: 18-19 Credit Hours

Russian

Required Courses

Core Courses (9 Credit Hours)

- RUSS 2341 - Intermediate Russian I
- RUSS 2351 - Intermediate Russian II

- RUSS 3341 - Advanced Russian I
  or
- RUSS 3361 - Comparative Grammar

Three courses from the following: (9 Credit Hours)

- RUSS 3302 - Practicum in Russian Conversation and Phonetics
  or
- RUSS 3304 - Russian Grammar Practicum

- RUSS 3323 - Practicum in Russian Culture

- RUSS 3351 - Advanced Russian II
  or
- RUSS 3361 - Comparative Grammar

- HIST 3340 - The Revolutionary Experience in Russia: 1900-1930
- HIST 3341 - Soviet and Post-Soviet Society and Politics, 1917 to the Present
- HIST 4367 - Russia From the Kievan Era to 1881
- PLSC 3358 - Government and Politics of Russia
- PLSC 3359 - From Communism to Democracy
- PLSC 3365 - Communism and Post-Communism
- PLSC 4384 - American-Russian Relationship
- WL 3308 - Introduction to General Linguistics
- WL 3323 - Russian Culture

Total: 18 Credit Hours

World Languages and Literatures Courses

All WL/WLAN courses are conducted in English.

Chinese Culture and Literature	WL 3310, WL 3325, WL 3397
Francophone Culture and Literature	WL 3309, WL 3317, WL 3327, WL 3328, WL 3330, WL 3341, WL 3355, WL 3361 (SMU-in-Paris only), WL 3362, WL 3363, WL 3365 (elective does not count toward the French major), WL 4310, WL 4365
German Culture and Literature	WL 3318, WL 3369, WL 3374, WL 3379
Italian Culture and Literature	WL 2395, WL 3319, WL 3378, WL 3390 (FILM 3390), WL 3391, WL 3393, WL 3394
Russian Culture and Literature	WL 3323 (HIST 2323), WL 3331, WL 3332
Hispanophone Culture and Literature	WL 2330, WL 3303, WL 3305, WL 3306, WL 3324, WL 3360, WL 3364, WL 3371, WL 3372, WL 3373, WL 3376, WL 3377, WL 3382, WL 3396, WL 4345
Linguistics	WL 3308, WL 3342, WL 3375
Transnational/Interdisciplinary Cultural and Literary Studies	WL 3301, WL 3302, WL 3316, WL 3340, WL 3349, WL 3350, WL 3359, WL 3380, WL 3381, WL 4311
Internship	WL 4185, WL 4285, WL 4385

WL 2330 - Formation of the Spanish Identity: Heroes, Villains, and Outcasts in History, Literature, and Art
Credits: 3
This course deepens students' knowledge of the civilization of Spain through an interdisciplinary overview of some of the nation's most famous and contentious figures and phenomena that have participated in the definition of the nation. We will discuss and debate in class these figures in relation to the identity and ethos of Spaniards. Students explore a variety of readings and media, and produce written assignments, presentations, debates, and group work in class. Students are expected to demonstrate an inquisitive position and sensitivity with respect to cultural phenomena that may differ from their own.

WL 2355 - Literature and Theology: Catholic Thought From Augustine to the Present
Credits: 3
Studies the Catholic vision of God and humanity in its development from antiquity to the present, through autobiographies, novels, poetry, film, and theology.

WL 2395 - Italian Culture
Credits: 3
Significant aspects of Italian culture and thought, beginning with the age of Dante, are presented from poetry, prose, drama, journalism, architecture, the fine arts, music, and film.

WL 3301 - Introduction to Literary Translation
Credits: 3
Explores the art and practice of literary translation by examining the ways in which language and ideas travel across linguistic and cultural boundaries. Students should have a working knowledge of a source language, in order to develop strategies to create clean and compelling literary translations into English.

WL 3303 - Topics in Spanish Civilization
Credits: 3
A topical exploration of Spanish culture and society, with particular emphasis on artistic and sociological aspects. The topic explored varies by instructor.

WL 3304 - Special Topics: Spanish Literature Translation
Credits: 3
Topics may vary.

WL 3305 - Special Topics: Latin American Literature in Translation
Credits: 3
Reading of masterworks of Latin American authors. Readings will vary from term to term and will be selected for their relevance to a particular period, genre, or theme.

WL 3306 - Chicano Cultural Heritage
Credits: 3
A study of the Chicano/mestizo cultural identity in the Southwest. Includes readings from selected contemporary authors as well as from the early recorded contacts between Native Americans and their European conquerors.

WL 3308 - Introduction to General Linguistics
Credits: 3
This course is an introduction to the field of linguistics, which is concerned with the study of human language in the broadest sense.

WL 3309 - French Cinema: 1945 to the Present
Credits: 3
Uses cultural studies theory to explore the evolution of the French national identity from the end of the Nazi occupation of France in 1945 to the present day.

WL 3310 - Transnational Chinese Cinema
Credits: 3
Introduces films produced in the People's Republic, Taiwan, and Hong Kong. In considering cinema as a sign system for the construction of sociocultural and aesthetic meanings, this course examines different national identities and film genres. Students learn to understand non-Western cultural texts and to analyze cinematic representations.

WL 3316 - Revolutions in Thought: Continental Philosophy from Marx to Derrida
Credits: 3
Survey of key thinkers and schools in continental philosophy from the mid-19th to late 20th century. Focuses on the historical context of philosophical movements, their influence, and their relationship to one another.

WL 3317 - French Gastronomy and Culture
Credits: 3
Introduction to French gastronomy through history and culture.

WL 3318 - Migration, Asylum, and Human Rights in German-Speaking Contexts
Credits: 3
Explores German debates around migration, asylum, and citizenship through various texts (legal, political, literary) from the 1950s to the present.

WL 3319 - The Italian American Experience: An Introduction
Credits: 3
Focuses on the impact of the Italian American presence in the United States by looking at the historical, political, literary, and artistic experiences of Italian immigrants and their descendants.

WL 3323 - Russian Culture
Credits: 3
Significant aspects of Russian thought and culture at its various stages of development are presented and illustrated by examples from literature, folklore, prose, drama, journalism, architecture, the fine arts, and music.

WL 3324 - Life Stories from Spain: How Do We Tell the Story of a Life?
Credits: 3
Focuses on different interpretations of the life stories and textual production of Spanish figures from the medieval period through the twentieth century. Students may not receive credit for both WL 3324 and SPAN 4375.

WL 3325 - Perspective on Modern China
Credits: 3
Survey of China in the 20th century in terms of cultural trends, literature, and cinema. Stresses the interactions between reality and representation, between author and reader and/or audience, and between text and interpretation. Emphasizes close reading of texts or viewing of films, followed by critical analysis.

WL 3326 - Introduction to French Cinema
Credits: 3
An introduction to French cinema's major works, filmmakers, and trends with an emphasis on the historic and cultural context of this cinema.

WL 3327 - Les Misérables
Credits: 3
Reading and analysis of Victor Hugo's masterpiece Les Misérables.

WL 3328 - French Women Writers
Credits: 3
Introduction to French women novelists from the 19th to the 21st century.

WL 3329 - French Muslim Citizens and the Algerian War: The Harkis
Credits: 3
Focuses on the Harkis, the Muslim Algerian loyalists who served as auxiliaries in the French Army during the Algerian War from 1954 to 1962. Examines the Harkis as neither fully French nor Algerian through historical readings, visual media (films and documentaries), and popular culture. Meet once a week for 3 hours.

WL 3330 - Migration, Occupation, and Independence in North African Cinema
Credits: 3
An introduction to the cinemas of Algeria, Tunisia, Morocco, Chad, and Mali. The course explores the themes of migration, occupation, and independence in both individual and national terms.

WL 3331 - Survey: Russian Literature in Translation
Credits: 3
Russian literature from the 18th century to the present. Works by Tolstoy, Dostoevsky, Chekhov, Solzhenitsyn, and others.

WL 3332 - Special Topics: Russian Literature in Translation
Credits: 3
Texts, periods, and thematic and critical approaches vary from term to term.

WL 3340 - Semiotics and Interpretation
Credits: 3
Semiotics is the study of how meaning is produced and communicated. This course explores semiotic approaches to the interpretation of the most complex of all human communications: literary texts.

WL 3341 - The Failure of Humanity in Rwanda
Credits: 3
An introduction to 1994 Rwanda genocide that seeks to understand not only its origins but also its sociological, ethical, and human rights implications.

WL 3342 - Linguistic Diversity and Social Justice: An Introduction to Sociolinguistics
Credits: 3
This introduction to sociolinguistics, the scientific study of language systems in their social context, explores sociolinguistic research on the realities of linguistic diversity, especially related to social injustice.

WL 3349 - The African Diaspora: Literature and History of Black Liberation
Credits: 3
Black literature played an important role in bringing on the collapse of the European colonial order, and it remains a

major force in the struggle against neocolonialism today. The course explores links between literature and politics, literature and history, and thought and action in 20th-century Africa and the Caribbean. Readings and lectures are supplemented by class discussion, films, and videotapes about the Caribbean and Africa.

WL 3350 - Existentialism and Literature
Credits: 3
Existentialist perspectives on society, individual responsibility, politics, and war as presented in key literary texts by Kierkegaard, Dostoevsky, Malraux, Sarte, Camus, Ellison, and others.

WL 3355 - Tradition, Community, and Identity in African Cinema
Credits: 3
Uses cultural studies theory to explore evolutions of African identity (individual, collective, and national) in the postcolonial period.

WL 3359 - Masculinities: Images and Perspectives
Credits: 3
The representation of male sex roles in Western literature, from Achilles to James Bond. Open to juniors and seniors; sophomores by permission of instructor.

WL 3360 - Immigrant Representations in Contemporary Spanish Cinema
Credits: 3
Analyzes the interaction between film, political discourse, and applied ethics in Spain. Students focus on and analyze filmic accounts of immigration as observed by Spaniards. Examines important ethical theories related to immigrant rights and their social perception. Provides a cross-cultural, interdisciplinary, and comparative framework of study. A special emphasis is placed on understanding cinema language, ethical, and philosophical theories.

WL 3362 - Postcolonial France
Credits: 3
A multidisciplinary course providing an introduction to, or better understanding of, some of the most passionate debates on assimilation, difference, and multiculturalism that have emerged in France in recent years.

WL 3363 - Figuring the Feminine
Credits: 3
The feminist inquiry in France from the Middle Ages to the present. Texts by women that bear witness to women's struggles for civil, social, and political adulthood.

WL 3364 - Cuban Civilization and Culture
Credits: 3
Introduces students to Cuba and deepens their understanding of Cuban culture. Students will become familiar with milestone events that have shaped the nation's identity. An emphasis is placed on the role of the USA as an important factor affecting the Cuban society.

WL 3365 - Special Topics French Literature in Translation
Credits: 3
Texts, periods, and thematic and critical approaches will vary from term to term.

WL 3369 - Perspectives on Modern Germany
Credits: 3
A multidisciplinary survey of the German heritage, with emphasis on Germany's quest for identity and unity. Prerequisite: Sophomore standing or permission of instructor.

WL 3371 - Latin America Through Film
Credits: 3
An exploration of key cultural themes, historical contexts, and cinematography concepts through the analysis of

films portraying Latin American countries and their people. This course is an equivalent of SPAN 4365. Students may only take WL 3371 or SPAN 4365.

WL 3372 - Relocating Latinos and Their Cultures
Credits: 3
Examines the multidisciplinary field of Latino/a Studies to better understand the place of Latinos in the U.S. A selection of texts from a variety of disciplines will inform our discussions of the major themes addressed: identity, immigration (history), language, education, and culture.

WL 3373 - The Short Story in Latin America
Credits: 3
Introduces important writers from countries including Argentina, Brazil, Colombia, Mexico, Chile, and Puerto Rico, as well as U.S. Latino/a writers. Examines how these different authors articulate their perspectives about cultural, social, and political dynamics through short stories. Students may only take WL 3373 or SPAN 5338.

WL 3374 - Sex, Gender, and Identity in Germany from the Late 19th Century to the Present
Credits: 3
Explores the definitions of homosexuality and gender identities and the historical experiences of gays and women in Germany from the late 19th century to the present.

WL 3375 - Introduction to Psycholinguistics
Credits: 3
Explores how the human brain learns, comprehends, and produces language. Employs a multidisciplinary approach that draws from linguistics, psychology, neurosciences, and philosophy.

WL 3376 - Literature and Nation in Spanish America
Credits: 3
Examines the important historical role literature plays in Latin American nation-building projects.

WL 3377 - Havana as Revolution: The Cuban Capital in the National and Global Imagination
Credits: 3
Examines ways in which Havana has functioned as a site for sustained cultural, social, and political revolution in both the national and global imagination from the late 19th century to the present. Students will study literary and historical texts, take field trips to significant sites, and engage in dialogue with members of the Havana community. (SMU-in-Havana)

WL 3378 - Pompeii: Life Interrupted
Credits: 3
Explores aspects of the social, religious, political, and commercial life in Pompeii through graffiti, physical remains, and primary sources, as well as more contemporary visual and literary representations.

WL 3379 - Modern German Culture From the Enlightenment to the Present
Credits: 3
Explores the history and culture of Germany from the late 18th century to the present. Focuses on conceptions of the nation and middle–class identities.

WL 3380 - Classical Latin Literature in Translation
Credits: 3

WL 3381 - Exploring the Greco-Roman World: Fact, Fiction, and Film
Credits: 3
Explores film adaptations of Greco-Roman history and literature by looking at the classical works upon which they are based in conjunction with current scholarship.

WL 3382 - Texas-Mexico Borderlands: A Social, Political, Cultural, and Economic Story
Credits: 3
Focuses on the relationship between Mexico and the US, and US-Mexico borderlands as historical, political, and cultural space. Special focus on Mexico and Texas.

WL 3383 - Gender and Human Rights in Latin American Women Writers
Credits: 3
Explores constructions of sexuality, gender, and identity in key historical moments in literature by Latin American women, with a focus on the intersecting themes of gender rights and human rights. This course is the equivalent of SPAN 5375/HRTS 3383. Students may only take WL 4345/HRTS 3383 or SPAN 5375.

WL 3387 - Japanese Culture Through Film
Credits: 3
An introduction to Japanese cinema from 1950 to the present that analyzes what culturally and cinematically important films from Japan during this time period show about modern Japanese culture.

WL 3388 - Future Worlds: French Science Fiction from the Enlightenment to the Present
Credits: 3
Explores French futuristic fiction in translation. Examines how Francophone artists grapple with social, political, and technological change through utopian or dystopian visions of the future.

WL 3390 - Italian Cinema
Credits: 3
A chronological survey of Italian cinema from its beginnings to the present. Themes and cinematic styles of several internationally noted directors such as Rossellini, DeSica, Fellini, Antonioni, and Bertolucci, with attention to the Italian cinema as a reflection of sociopolitical trends.

WL 3391 - Italian Literature in Translation: The Italian Novel
Credits: 3
A close reading of five representative works. While the novels are considered in light of historical events, students give special attention to form and rhetoric in order to understand the novel's unique ability to express and create reality.

WL 3393 - Dante's Poetic Vision
Credits: 3
Students read "Inferno" and "Purgatory" in English translation and explore the cultural and poetic values that reflect a specific world vision strongly conditioned by religious and political philosophy.

WL 3394 - Boccaccio's Decameron and Medieval Storytelling
Credits: 3
Students read stories from the Decameron in English translation along with such narrative predecessors as the Roman exempla, hagiography, monks' tales, sermons, and the bawdy French tales known as the fabliaux.

WL 3396 - Leadership and Ethics in Literature
Credits: 3
Examines the intersection between leadership and ethics in selected literary texts and explores leadership in a variety of settings such as business, civic and political engagement, and education.

WL 3397 - China Before 1850
Credits: 3
Examines changes and continuities from Neolithic times to 1850 in Chinese state, society, and religion, and the relations among the three spheres, through scholarly writings and primary sources.

WL 4185 - Internship: World Languages
Credits: 1
Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. Prerequisites: Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. Corequisite: Beginning or intermediate world language course that is relevant to the internship.

WL 4285 - Internship: World Languages
Credits: 2
Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. Prerequisites: Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. Corequisite: Beginning or intermediate world language course that is relevant to the internship.

WL 4385 - Internship: World Language
Credits: 3
Offers experience in organizations where knowledge of a foreign language and/or the culture of the language communities is relevant. Prerequisites: Rising sophomore, junior, or senior standing; an overall GPA of 3.000 or higher; and sponsorship of the organization, agency, or corporation. Corequisite: Beginning or intermediate world language course that is relevant to the internship.

World Languages Courses

All WL/WLAN courses are conducted in English.

WLAN 1301 - Beginning Language (Languages Not Taught At SMU)
Credits: 3
Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Three classes a week. For SMU Abroad students only.

WLAN 1302 - Beginning Language Term Two
Credits: 3
Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Three classes a week. Prerequisite: C- or better in WLAN 1301 (same language) or permission of program director. For SMU Abroad students only.

WLAN 1401 - Beginning Language Term One (Languages Not Taught At SMU)
Credits: 4
Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes a week. For SMU Abroad students only.

WLAN 1402 - Beginning Language Term Two
Credits: 4
Stresses the acquisition of basic skills: speaking, listening comprehension, reading, and writing. Five classes a week. Prerequisite: C- or better in WLAN 1401 (same language) or permission of the program director. For SMU Abroad students only.

WLAN 3311 - Special Topics Abroad in World Languages
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

WLAN 3313 - Special Topics Abroad in World Languages
Credits: 3
Courses in SMU-approved international programs. Prior departmental approval required.

Other Language Courses
American Sign Language Courses

ASL 1401 - Beginning American Sign Language I
Credits: 4
An introductory study of grammar and language, with an emphasis on developing question-and-answer skills. The student learns conversational strategies to help maintain a conversation. Prerequisites: Reserved for students who have no prior ASL experience or have been placed into ASL 1401 by the ASL placement exam. Enrollment permission from the Second Language Adviser is required to enroll.

ASL 1402 - Beginning American Sign Language II
Credits: 4
Examines the development of receptive and expressive language skills. The student learns to express, negotiate, and interpret meaning in American Sign Language. Prerequisites: C- or better in ASL 1401 or the appropriate placement exam score by the ASL placement exam. Enrollment permission from the Second Language Adviser is required to enroll.

ASL 1502 - American Sign Language II with Review
Credits: 5
Reviews ASL fundamentals and increases student proficiency. This course continues to focus on the development of receptive and expressive ability with increasingly complex vocabulary, increased fingerspelling, and numbers fluency and accuracy. Prerequisites: Reserved for students who have previous ASL experience but did not place into ASL 1402. Approval from the WLL advisor is required for enrollment.

ASL 2301 - Intermediate American Sign Language I
Credits: 3
Students improve receptive and expressive fluency while reinforcing appropriate grammar usage and conversation skills. Introduces deaf idioms and their use within Deaf culture. Prerequisite: C- or better in ASL 1402 or ASL 1502, or appropriate placement exam score.

Greek Courses

GRE 1401 - Beginning Ancient Greek I
Credits: 4
Students will learn basic syntax, grammar, and morphology of Ancient Greek. They will gain the skills to read adapted passages from Greek authors and will gain insight into ancient Greek history and culture.

GRE 1402 - Beginning Ancient Greek II
Credits: 4
Students will learn basic syntax, grammar, and morphology of Ancient Greek. They will acquire the skills to read adapted passages from Greek authors and will gain insight into ancient Greek history and culture.

GRE 2311 - Intermediate Greek I
Credits: 3
Continues the study of Ancient Greek at the intermediate level, focusing on the more complex aspects of Greek grammar such as subjunctive/optative use, participles, and intermediate reading techniques. Students also read many adapted Greek passages from leading Ancient Greek authors, including Herodotus, Plato, and Thucydides. Prerequisite: C– or better in GRE 1402 or the appropriate placement exam score. Students meeting these requirements will be able to enroll. Otherwise, approval from the WLL adviser is required for enrollment.

GRE 2312 - Intermediate Greek II
Credits: 3
Reading course, immersing students in Greek texts with a secondary focus on grammar and syntax. Further introduction into Greek history and culture and long form readings from Greek authors such as Aesop, Xenophon, and Plato. Prerequisite: C- or better in GRE 2311 or approval from the WLL adviser is required for enrollment.

Cox School of Business

General Information

Vision Statement

The mission of the Edwin L. Cox School of Business is to improve the school's academic programs and reputation as a top-tier business school by providing a high-quality business education to students and the business community, conducting research that contributes to the understanding of business and management, and participating in the service activities of the University and professional organizations.

History

From its beginning as the Department of Commerce for Southern Methodist University, the Edwin L. Cox School of Business has been educating the country's business leaders for 100 years.

Named in 1978 in honor of Dallas businessman Edwin L. Cox, the Cox School has a rich heritage that began in 1920 when the SMU Board of Trustees established a Department of Commerce at the request of the Dallas business community. In 1921 the Department of Commerce was renamed the School of Commerce, and in 1941 the Board of Trustees established the School of Commerce as a separate entity within the University. At this point, the School of Commerce became the School of Business Administration, and the Bachelor of Business Administration degree was approved by the trustees.

The graduate program at the School of Business Administration began in 1949 with the authorization of a Master of Business Administration program. Both the undergraduate and the graduate degree programs are accredited by the Association to Advance Collegiate Schools of Business (AACSB International). The Cox School also grants a minor in business administration and a minor in business to undergraduates. The graduate program at the School of Business Administration began in 1949 with the authorization of a Master of Business Administration program. Both the undergraduate and the graduate degree programs are fully accredited by the Association to Advance Collegiate Schools of Business (AACSB International). The graduate program offers M.B.A; M.S.; M.A./M.B.A.; J.D./M.B.A.; and M.S./M.B.A. degrees, including degrees offered in joint and dual programs with the other SMU schools. Also, the Cox School offers custom and open enrollment Executive Education certificate programs.

In 1965, the SMU Foundation for Business Administration was established. This group of advisers has helped guide the Cox School throughout the years and today is known as the Executive Board. Also instrumental in supporting the Cox School are members of its two successful mentoring programs: the Associate Board for M.B.A. students and the BBA Mentoring Alliance. These two boards involve more than 350 area business leaders who volunteer their time and expertise to students who want to start making business connections for the future.

Cox School Complex

In 1952, ground was broken for the Joseph Wylie Fincher Memorial Building for the School of Business Administration. In 1987, two buildings were added to the Cox School complex: the Cary M. Maguire Building and the Trammell Crow Building. In 2005, the Cox School opened the James M. Collins Executive Education Center.

Today, the Fincher Building houses administrative and faculty offices as well as conference and meeting rooms, while the Maguire and Crow buildings primarily house classrooms and study rooms. The Collins Center is home to the region's premier resources for working professionals and executives and houses the Cox School's Executive Education programs, Executive M.B.A. program and M.B.A. Global Leadership Program Office (supported by The Norman E. Brinker Global Leadership Endowment Fund), as well as the Southwestern Graduate School of Banking.

Hailed as one of the most technologically advanced business learning facilities in the country, the Cox School complex has as its hub the Business Library, which combines many of the features of a traditional university library with the latest in online databases, search tools and presentation facilities. Through the Business Library, Cox School students, faculty and staff have access to instruction and research assistance from dedicated business librarians to enhance their use of current business news and financial, industry and market data from premier providers. In addition, the library contains a group presentation room, multimedia studio, personal computers, printers and scanners for student use. The Kitt Investing and Trading Center, added to the Business Library in 2011, is a state-of-the-art instructional and research facility designed to integrate financial data and technology into the finance curriculum, enhance innovative faculty research, and teach students practical finance and investment

applications. The BBA Library Research Program ensures that students are experienced in finding answers to complex questions and can present their research in an ethical and professional manner. All students that graduate from the Cox School of Business will have substantial research experience in the areas of subject major, senior capstone project, and career preparation.

Centers and Institutes

Edwin L. Cox Business Leadership Institute

Paula Hill Strasser, **Director**

The Edwin L. Cox Business Leadership Institute (BLI) offers undergraduate courses designed to develop and enhance B.B.A. students' fundamental business communication and leader-applied skills. The BLI provides students with essential knowledge and experience through lectures, corporate presenters, class discussions, self-assessments, simulations and comprehensive team projects. In addition, students sharpen their career management skills by perfecting their résumés and cover letters, and researching future career choices. The BLI helps students understand channels of communication and appropriate mediums within organizations, and also understand how global cultural diversity affects business communication and leaders. Students use course textbook, experiential learning, hands-on assignments and individual coaching to develop demonstrable written/oral communication skills and a portfolio essential for initiating a business career.

The Executive Education Center

Shane Goodwin, **Associate Dean of Executive Education and Graduate Programs**

The Executive Education Center is Dallas' preeminent resource for business training, leadership development and advanced leadership initiatives, offering certificate programs for working professions and programs uniquely designed for corporate partners. SMU Cox Executive Education helps individuals and companies realize their full leadership potential. Leadership, Strategy, Multidimensional Diversity, and Finance programs teach the skills and tools students need at critical junctions in their corporate careers. Whether moving into a first managerial job or already at the senior executive level, the center helps students refine essential competencies, business acumen and soft skills. The center is also home to the Latino Leadership Initiative, known for best-in-class leadership development programs with specific focus on diversity and inclusion.

The Center for Marketing Management Studies

Charles A. Besio, Jr., **Executive Director**

The Center for Marketing Management Studies serves as a focal point for interaction among faculty, practitioners and students who share a common interest in applied marketing management research and education. The center sponsors research and educational programs in marketing management.

The Caruth Institute for Entrepreneurship

Simon Mak, **Executive Director**

Founded in August 1970 and one of the earliest entrepreneurship centers, the Caruth Institute for Entrepreneurship has continuously developed innovative courses and programs to help individuals keep pace with the dynamic, rapidly changing field of entrepreneurship. The institute currently offers undergraduate, graduate, and professional development courses to teach students the skills and knowledge necessary to launch and manage successful entrepreneurial ventures. In addition to its academic courses, the institute supports the SMU Incubator, sponsors entrepreneurship clubs, a business plan competition an MBA Venture Fund, and has created a number of unique programs that enable students to experience and better understand starting and building entrepreneurial ventures in a global context. Programs include the Southwest Venture Forum, where entrepreneurs, investors and the professionals who serve them can meet, and the Dallas 100™ Awards – an annual event that identifies and honors the 100 fastest-growing privately held companies in the Dallas area.

The Robert and Margaret Folsom Institute for Real Estate

Joseph D. Cahoon, **Director**

The Robert and Margaret Folsom Institute for Real Estate was established in 1984. The institute is engaged in a number of initiatives to support both the undergraduate and graduate academic programs. It serves to support and foster industry knowledge, training, internships, networking and community outreach among commercial real estate industry professionals, Folsom Institute Advisory Board members, alumni and SMU students. The institute

cultivates tomorrow's innovative real estate leaders through its dedication to academic excellence, real world applications, technical training, leadership coaching and career placement assistance.

Maguire Energy Institute

W. Bruce Bullock, **Director**

The Maguire Energy Institute promotes the study of policy, marketing and management issues that affect oil, natural gas and electricity. Founded by Cary M. Maguire, chairman, president and chief executive officer of Maguire Oil Company, the institute is a leading-edge resource for energy industry information and facilitates the exchange of ideas among students, businesses, the media and government officials.

Students can participate in courses, workshops and seminars. The institute also conducts research and analysis, publishes a quarterly newsletter on important policy issues and focuses on exploring innovative ways to improve management of the world's oil and gas resources.

JCPenney Center for Retail Excellence

Edward J. Fox, **Executive Director**

The JCPenney Center for Retail Excellence was endowed in 1999 through a gift from the J.C. Penney Company Inc. in order to promote, develop and integrate retail education and practice. Today, the center has become a leading source of academic expertise on consumer shopping behavior and the impact of marketing and merchandising decisions on retailer performance. Among its activities, the center fosters cutting-edge retail research, facilitates SMU's undergraduate Retailing Club to stimulate interest in retail careers and cosponsors a retail speaker series with the Dallas/Fort Worth Retail Executives Association.

The EnCap Investments & LCM Group Alternative Asset Management Center

William F. Maxwell, **Director**

Made possible by gifts from EnCap Investments and LCM Group, the EnCap
Investments & LCM Group Alternative Asset Management Center is designed to meet the increasing demand for investment professionals in the growing field of alternative assets, including hedge funds, private equity, venture capital, real estate, and oil and gas. The center offers an alternative assets program for finance majors at the undergraduate level. Selected course offerings are also open to M.B.A. and M.S. in Finance students. Undergraduate students interested in alternative asset management apply for admission to the program during their junior year, and complete a course under the direction of the EnCap Investments & LCM Group Alternative Asset Management Center.

William J. O'Neil Center for Global Markets and Freedom

W. Michael Cox, **Director**

The O'Neil Center for Global Markets and Freedom was established by William J. "Bill" O'Neil (BBA, '55) and his wife Fay C. O'Neil. The O'Neil Center's focus is the study of the impact of competitive market forces on freedom and prosperity in the global economy: why some economies grow and others fail. The center conducts economic research on the nature of causes and consequences of economic freedom and other topics related to global prosperity, and provides economic education to students and the public on the principles of an open, competitive and free economy. More information is available at www.oneilcenter.org.

The Don Jackson Center for Financial Studies

William F. Maxwell, **Director**

The Don Jackson Center for Financial Studies provides enrichment programs and research opportunities for students and faculty in the Cox School's Finance Department. The Center each year designates students as Don Jackson Associates. The Center's Associates work to mentor and prepare students for internships and full-time employment.

Admission

The Cox School of Business offers three undergraduate programs. All Cox classes, unless otherwise noted in the course descriptions, are open only to students in the bachelor of business administration, minor in business administration or minor in business programs. **Note:** Detailed information regarding SMU's admission requirements, regulations and procedures is found in the Admission to the University section of this catalog.

- The B.B.A. program offers eight academic majors within business. Admission is available to entering SMU students through the BBA Scholars Program, the Business Direct Program, or to internal and external transfer students through the processes described in Admission of SMU Students to a Business Major/B.B.A. Degree Program or Applying for Admission to the Cox School as an External-Transfer Student below.
- The minor in business administration and minor in business provide a comprehensive introduction to business for SMU students who have majors outside the Cox School. Courses for both minors are subsets of the B.B.A. core courses and are offered throughout the academic year.

Guidelines for In-class Requirement and Use of Electronic Devices

All B.B.A. majors and minors enrolled in ITOM 2308, ITOM 3306 and ACCT 4307/ITOM 4307 are required to have laptop computers and to bring them to each class session. Windows-based PCs are highly preferred, particularly for finance majors. **Note:** Students must have Windows *AND* the current version of Office for Windows installed on their laptops.

All instructors have the right and responsibility to set course policy, which should be included in the syllabus. Students are bound by the instructor's policy regardless of what other instructors or courses may accept and/or require. This policy may include (but is not restricted to) the following alternatives.

- The use of laptop computers is limited to one of the following levels:
    - Laptop use is restricted to course-related (and possibly session-related) content and applications only.
    - If there is no course-related content that students can reasonably be expected to need during class sessions, laptop use can be restricted to note-taking use only.
    - If in-class tests are provided in electronic form, students may be allowed to take the test on their laptops.
    - If none of the above uses is desired, the use of laptops can be prohibited during class sessions.
- Use of chat services during class sessions is prohibited.
- Unless there are course-related applications of mobile phones, PDAs and smart-phones, the use of such equipment during class sessions is prohibited. Mobile phones must be shut off or set to silent mode during class sessions, and answering telephone calls and text messages during class is prohibited.
- Use of cameras and video cameras on mobile phones and laptops during class sessions may be prohibited or allowed. For example, instructors may allow students to take photos of the whiteboard and/or projected materials in the session.

Admission of SMU Students to a Business Major/B.B.A. Degree Program

Admission to the Cox undergraduate program is made at the time a student is admitted to SMU via the BBA Scholars Program or the Business Direct Program, through the internal transfer process at the conclusion of the student's first year, or as an external transfer student.

Notes:

- If credit earned prior to matriculation is nontransferable because the grade earned is below C-, but the course is equivalent in content to an SMU course, the grade will count toward the all-college cumulative GPA.
- Current University grading policy, as summarized under Academic Forgiveness in the General Policies section of this catalog, permits forgiveness of academic work taken 10 or more years prior to the term of admission. Academic work forgiven under this policy will not be included in the all-college cumulative GPA.
- When evaluating courses taken at other colleges or universities, the Cox School will use the grades and credit hours designated by the school at which the courses were taken. Business Elective Transfer Credit (BETC) is used to award transfer credit for transferable courses where there is not an equivalent business course prefix. The Cox School will not recalculate grades earned at schools that use grading systems different from SMU's nor change the number of credit hours for a course.

Applying for Admission to the Cox School of Business

Admission to the Cox BBA Scholars Program and to the Business Direct Program is by invitation only to students entering SMU directly from high school for the fall term. Neither internal nor external transfer students are

considered for admission in either the BBA Scholars Program or the Business Direct Program. Students invited to join either program must accept their invitation no later than the University's deposit deadline (typically May 1) prior to SMU matriculation in the following fall. Internal and external transfer students may apply through the processes listed below.

Admission to the Cox School as a BBA Scholar

Students in the BBA Scholars Program will be admitted to the Cox School at the conclusion of the fall term.

Admission to the Cox School as a Business Direct Student

1. Completion of a minimum of 24 SMU credits.
2. A minimum 2.750 all-college cumulative GPA earned at the conclusion of the first year.
3. Successful completion of BLI 1110 and BLI 1210.

Applying for Admission to the Cox School as an Internal Transfer Student

Current SMU students who are not BBA Scholars or Business Direct students may apply for admission to the Cox School at the conclusion of their first year. Applications will be accepted in the spring term for admission the following term. This process is competitive and limited by space availability. Applications will be reviewed by a faculty committee, and decisions will be made after spring term grades are posted. A minimum 3.500 all-college cumulative GPA and completion of a minimum of 24 SMU credits are required to apply. Preference will be given to students who have completed ECO 1311, ECO 1312, and MATH 1309/MATH 1337. Students admitted to the Cox School as internal transfers will complete BLI 1110 and BLI 1210 in their first year in Cox.

Applying for Admission to the Cox School as an External Transfer Student

Students wishing to transfer into the Cox School from another institution must first be admitted to SMU through the Office of Undergraduate Admission. Transfer students who are successful in this process and have indicated interest in a major in business on their application will be reviewed for admission to Cox by a faculty admission committee. A minimum 3.500 all-college cumulative GPA and completion of a minimum of 24 credits are required for review; admission decisions will be made on a space available basis. Preference will be given to students who have completed the transferable equivalents of ECO 1311, ECO 1312, and MATH 1309/MATH 1337. Students admitted to the Cox School as external transfers will complete BLI 1110 and BLI 1210 in their first year at SMU.

Admission to the Minors

SMU students who are NOT pursuing a major in the Cox School may choose the minor in business administration or the minor in business.

Admission to the Minor in Business Administration

The minor in business administration operates concurrently with the B.B.A. degree program and includes seven courses that can apply toward either the B.B.A. degree or the minor in business administration (Minor Requirements section). Students in this minor must meet the same admission requirements as internal and external applicants to the Cox B.B.A. program: completion of a minimum 24 academic credits with a minimum 3.500 all-college cumulative GPA; and preference given to credit for ECO 1311, ECO 1312, and MATH 1309 or MATH 1337.

Admission to the Minor in Business

The minor in business is open to all SMU students who are NOT pursuing a B.B.A. major or the minor in business administration. Students in this minor take specified B.B.A. core courses, which are offered throughout the academic year. Students may declare the minor in business after completing ACCT 2301.

Statute of Limitations

If a student is readmitted to SMU after an absence of three years or longer, the student will be readmitted under the University catalog in effect at the time of readmission and will be subject to degree and admissions requirements in that current catalog.

Acceptance of Transfer Credit Prior to Enrollment

A prospective transfer student must present to the Division of Enrollment Services official transcripts containing a full record of all previous college work attempted. Failure to provide full records of all work is grounds for dismissal

from the Cox School. To avoid delay, students should forward transcripts to the SMU Division of Enrollment Services no later than July 1 for the fall term and December 1 for the spring term.

In general, transfer credit will be accepted for business major or minor credit only if the courses completed are equivalent in content to those offered at SMU and if the university's school of business at which the courses were completed is accredited by The Association to Advance Collegiate Schools of Business (AACSB International). In the case of transfer credit completed at a junior/community college, only those courses with equivalents at the first-year and sophomore level at SMU (1000- and 2000-level courses) will be accepted for business major or minor credit.

Prior to matriculation, the Cox School will accept transfer business credit toward the B.B.A. degree from schools accredited by AACSB International regardless of the student's classification if there are equivalent/appropriate courses at SMU.

Courses completed with a grade of *D*+ or less or those completed without letter grades (pass/fail or satisfactory/unsatisfactory) will not be transferred for any degree credit. Grades earned elsewhere will be considered for admission purposes and in determining graduation with honors. When evaluating courses taken at other colleges and universities, the Cox School will use the grades designated by the school at which the courses were taken. The Cox School will not recalculate grades earned at schools that use grading systems different from SMU's.

Transfer Credit for Current SMU Students

Students enrolled in the Cox School who are seeking to fulfill any portion of their degree requirements through transfer credit must file a petition for approval of their intentions with the B.B.A. Academic Advising and Records Office in 252 Maguire prior to enrollment for such courses. With the approval of the appropriate SMU departmental chair, SMU students may complete a maximum of 30 transfer credit hours for degree credit. Students are cautioned to check the current SMU catalog before enrolling in courses at other institutions and to verify transferability with the appropriate offices. Matriculated students must complete all required business courses through enrollment at SMU. Exceptions to this policy require concurrent approval of the associate dean for undergraduate studies, the appropriate department chair, and the director of B.B.A. academic advising and records.

Regardless of the number of acceptable transfer credit hours, at least 60 of the total 120 baccalaureate credit hours must be completed through enrollment at SMU. Of the required business credit hours, a minimum of 30 must be completed through enrollment at SMU or SMU-approved international programs.

Detailed information regarding University-wide policies is provided in this catalog in the Admission and the Enrollment and Academic Records sections.

Academic Regulations

B.B.A. Degree Requirements

The Edwin L. Cox School of Business adheres to the Association to Advance Collegiate Schools of Business (AACSB International) standards of accreditation. Students will be awarded the Bachelor of Business Administration degree upon successful completion of the following requirements:

- **Admission.** Detailed information regarding admission to the Cox School of Business is found in the Admission section above.
- **Grade Requirements.** An overall GPA of at least 2.000 on all SMU work attempted and on all SMU business coursework attempted. Students must earn at least a 2.000 GPA in all business coursework attempted within the student's declared major to graduate with that major.
- **Pass/Fail Requirements.** Business students may elect the pass/fail option in business elective courses only after satisfactory completion of the previous term, all Cox core course requirements and all requirements of the student's declared major. The exception is courses within Cox that are designated as pass/fail only.
- **Minimum Credit hours and SMU Credit Requirement.** University policy requires a minimum of 120 approved credit hours. Detailed information is found in the Curriculum section below. Of the 120 minimum required credit hours for a degree, at least 60 academic credit hours must be earned as SMU credit in SMU courses or SMU-approved international programs. A minimum of 30 business credit hours must be completed through enrollment at SMU or SMU-approved international programs. The maximum number of business credit hours a student may take is the sum of the number of credit hours required to complete the

student's major, plus up to 12 credit hours in one specialization if the student is pursuing a specialization (under the Specializations for Majors tab), plus up to six credit hours of unrestricted business electives. Students may not exceed six credit hours of unrestricted business electives. Students are not required to take courses in a specialization or unrestricted business electives. The maximum limit on business credit hours does not include business courses taken abroad, business internship courses not required for a major, business-directed studies or credit hours needed to meet the business degree requirements related to the minimum credit hours taken at or through SMU. Business majors are limited to one major within the Cox School.

Application for Graduation

In order to graduate, students must file an application for candidacy to graduate with the B.B.A. Academic Advising and Records Office of the Cox School (in 252 Maguire) before the final term of coursework. Students should consult the Official University Calendar for graduation application deadlines.

In addition to requiring students to fulfill all academic requirements, the Cox School may consider any judicial or disciplinary matters before any degree may be conferred. Students must meet all financial obligations to the University in order to receive their diploma and transcript(s).

Commencement Activities Prior to Completion of Degree Requirements

Participation in May graduation activities is allowed for students who are August graduates provided they are enrolled to complete all graduation requirements during the summer following May graduation activities.

Curriculum Requirements

The requirements summarized below must be satisfied to earn the Bachelor of Business Administration degree. In addition to the University-wide requirements, a core of required business fundamental courses has been designed by the faculty of the Cox School as specified below. Each core course must be passed for a student to be eligible for graduation. Generally, Discernment and Discourse, calculus, and economics courses should be completed in the student's first year; accounting, managerial statistics, business communications and information systems requirements in the sophomore year; finance, legal environment and ethics, marketing, management, and operations management requirements in the junior year; and the business strategy requirement (STRA 5370 or CISB 5397, also known as capstone courses) in the senior year. Students will be enrolled in BLI 1110 and BLI 1210 in their first year in the Cox School.

Students are responsible for designing their own degree programs with assistance from the Cox academic advisers. Coordination with the Cox Career Management Center is highly advantageous for students who want to align major and course selection with their career aspirations. Close attention should be given to course and knowledge prerequisites as well as course content to maximize the value of each course and to avoid enrolling in a course for which a student has insufficient preparatory background.

Each student's file, reflecting his or her total academic record, is located in the B.B.A. Academic Advising and Records Office, 252 Maguire. Transcripts of the student's official record should be requested from the Office of the Registrar.

Advising

The undergraduate program of the Cox School of Business is strongly committed to the academic advising process and believes that advising is effective only if the student actively participates in, and assumes responsibility for, the advising process. Cox academic advisers are available in 252 Maguire for student appointments. All students admitted to the Cox School are required to complete an online orientation session which includes the B.B.A. Academic Advising and Records Office, the Cox Career Management Center and the Business Library. After the initial orientation, students are expected to consult with a B.B.A. adviser prior to enrollment every term until graduation.

Prior to each advising appointment, students are expected to examine their electronic degree progress report carefully, as it is the student's responsibility to help assure the eDPR's accuracy. Students enroll, swap and drop courses on my.SMU. The director of B.B.A. academic advising and records will add a student to a closed class only if the student is a graduating senior and there are no other course options for completing a degree requirement.

Cox faculty members provide assistance in the areas of their professional expertise, offering guidance in selecting and sequencing courses appropriate for meeting specific academic and career goals.

Education Abroad

Cox students may take no more than six credit hours of B.B.A. business core courses (out of 33 total credit hours of business core courses) in SMU Abroad programs. Students may take no more than six credit hours of courses required for their business major in SMU Abroad programs. Students may take no more than six credit hours of business courses that do not count for the business core or for the major in SMU Abroad programs.

Career Education and Services

The Cox Career Management Center fosters the development of lifelong career management skills, providing exposure to various careers and developing skills that will help students secure employment. Students learn career planning, personal brand development, resume and professional correspondence development, and interview and job search skills. Career management fundamentals are taught in the required BLI 1110/BLI 1210 courses. The career coaches meet with students one-on-one to develop individualized career plans and assist them with their internship or job search. Internships are strongly encouraged and are considered a key component of the undergraduate experience at Cox. SMU's location in Dallas allows students to pursue local, part-time internships during the academic year as well as global full-time internships during the summer. In addition, the Cox Career Management Center provides opportunities for B.B.A. students to interact with employers at career-related events such as career fairs, workshops, panels and seminars focused on specific industries, professions or companies. Students are encouraged to start this process early and make an appointment with a career coach during the term they are accepted to Cox. Ongoing meetings with career coaches are important for students to continue polishing the professional skill sets necessary for a successful job search. The Cox Career Management Center is located in 125 Fincher.

BBA Mentoring Alliance

The BBA Mentoring Alliance is a professional mentoring experience that pairs business undergraduates one-on-one with executives in the Dallas-area business community. The Mentoring Alliance enhances a student's collegiate experience by providing firsthand insights into the business world while teaching the value of effective networking. Eligibility for the mentoring program requires a declared major in business, junior or senior status, and good academic standing. B.B.A. students on academic probation are not eligible to participate. After acceptance into the program, students are matched with a mentor for an academic year.

BBA Scholars Program

The BBA Scholars Program affords numerous special opportunities, including networking with Cox faculty and the Dallas business community, invitations to special events, and tailored academic advising and career services. Participation in this program enhances students' educational experience and helps develop the skills and connections necessary for professional success.

Business Direct Program

The Business Direct Program offers admission to the Cox School by invitation only based on students' high school performance and after completion of the requirements listed in the Admission to the Cox School as a Business Direct Student above.

Directed Studies

Business students may pursue directed studies, a research-based project, in a specified department under the sponsorship of a full-time Cox faculty member. This project may involve further study by the student in some aspect not covered in regularly scheduled business courses. B.B.A. students must first complete the basic required course in the field of study. Business elective or free elective credit will be granted to a maximum of six credit hours and cannot be used to fulfill major requirements. Directed studies courses may be taken pass/fail without completion of the business major. Directed studies will be exempted from the maximum credit hour limit. Students on academic probation may not register for directed studies.

Internships

Business students may take up to three credit hours of general internship courses for work experience and up to six credit hours in Cox study abroad summer internship programs. With the exception of students in the marketing major, students cannot use the credit hours toward the B.B.A. major or minor requirements. Internships are for pass/fail credit.

Concurrent Degrees

B.B.A. students may simultaneously complete additional major(s) and/or minor(s) outside of business. Interested students should contact the B.B.A. Academic Advising and Records Office in the Cox School in 252 Maguire and the appropriate representative of the dean of the school in which the additional major/minor will be earned.

Programs of Study and Business Courses

The Cox School offers eight business majors, a program within one major, a minor in business administration and a minor in business. Declared business majors may also choose to add one of four specializations.

Majors

Accounting
Business Analytics and Supply Chain Management
Finance
Financial Consulting
General Business
Management
Marketing
Real Estate

Specializations

Energy Management
Entrepreneurship
Real Estate
Risk Management and Insurance

Program (Finance Major)

Alternative Asset Management

All business courses have been approved by the faculty of the Edwin L. Cox School of Business. It should be noted that not all courses described in this catalog are necessarily offered in any given academic year. Students should check published course schedules to see which courses are offered. From time to time, some courses may be changed and new courses added. Students should use caution in selecting courses to avoid repetition of courses previously taken.

Business Administration Core Requirements

In addition to the University-wide requirements, the required credit hours for the B.B.A. degree are distributed as follows:

Business Core Requirements

ACCT 2301 - Introduction to Financial Accounting	3 credit hours
ACCT 2302 - Introduction to Managerial Accounting	3 credit hours
BL 3335 - Business Law	3 credit hours
BLI 1110/BLI 1210 - Business Discovery/Business Communications	3 credit hours
FINA 3320 - Financial Management	3 credit hours
ITOM 2308 - Information Systems for Management	3 credit hours
ITOM 3306 - Operations Management	3 credit hours
MKTG 3340 - Fundamentals of Marketing	3 credit hours

MNO 3370 - Management	3 credit hours
STRA 5370 - Strategic Management in a Global Economy or CISB 5397 - Entrepreneurship: Starting a Business	3 credit hours
One from the following: STAT 2331 - Introduction to Statistical Methods EMIS 3340 - Statistical Methods for Engineering and Applied Scientists CS 4340/STAT 4340 - Statistical Methods for Engineers and Applied Scientists	3 credit hours
Business Hours	18-25 credit hours
Total	**51-57 credit hours**

Note: Management science/business double majors take ITOM 2308 and either STRA 5370 or CISB 5397; however, they take EMIS 3360 and EMIS 3362 instead of ITOM 3306.

Specializations for B.B.A. Students

SMU students who are declared business majors may choose to add one of four specializations: energy management, entrepreneurship, real estate, or risk management and insurance. Each specialization consists of four courses (12 hours).

Courses for the specializations will not double count toward the business core or the majors. No courses may be substituted for specilization courses.

Accounting

Professor Hemang Desai, **Department Chair**

Professors: Hemang Desai, Wayne Shaw
Associate Professors: Gauri Bhat, Nilabhra Bhattacharya, J. Douglas Hanna
Assistant Professors: Jing Pan, Sorabh Tomar, marcel Tuijn, Sean Wang, Hayoung Yoon
Professors of Practice: David McIntyre, Gregory Sommers, Wendy M. Wilson
Clinical Professor: Russell Hamilton, Susan Riffe
Assistant Professor: Erika Wheeler

Accounting, B.B.A.

All B.B.A. degree-seeking students take ACCT 2301 and ACCT 2302 as soon as they are eligible. Matriculated students must take these courses through enrollment in courses offered by the Cox School of Business.

Most accounting majors also complete an accounting internship, ACCT 5325 and ACCT 5326, which does not count toward the B.B.A. degree requirements but is completed using additional available business credit hours.

To earn the B.B.A. degree with a major in accounting, students must complete all University-wide requirements and the core B.B.A. Requirements, and satisfy the accounting requirements listed below.

Note: The core accounting courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Required Courses for the Major

- ACCT 3311 - Intermediate Accounting I
- ACCT 3312 - Intermediate Accounting II
- ACCT 4311 - Cost Accounting I
- ACCT 4315 - Federal Income Tax I
- ACCT 5314 - Information Systems and Assurance
- ACCT 5315 - Advanced Accounting
- FINA 4325 - Advanced Corporate Finance
- FINA 4125 - Advanced Corporate Finance Lab
- ITOM 4307 - Business Modeling with Spreadsheets

Total for the Major Only: 25 Credit Hours

Accounting Courses

ACCT 2301 - Introduction to Financial Accounting
Credits: 3
Develops an understanding of how the fundamental activities of a business enterprise are reflected in its financial statements, and how financial accounting information can be used effectively for external decision-making purposes (decisions such as investment, credit, risk management, and financing). Prerequisites: ECO 1311, ECO 1312 and MATH 1309 or MATH 1337; or BBA Scholars or Business Direct entering SMU fall 2020 and beyond.

ACCT 2302 - Introduction to Managerial Accounting
Credits: 3
Introduces the use of accounting information for management purposes, including decision-making, planning, and

control of operations. Students learn to integrate topics in cost determination, economic analysis, budgeting, and management and financial control. Prerequisite: ACCT 2301.

ACCT 3311 - Intermediate Accounting I
Credits: 3
An overview of financial statements and revenue recognition that focuses on the left-hand side (assets) of the balance sheet. Provides the necessary foundation for comprehension by users and preparers of the information in financial statements. Prerequisite: ACCT 2302. Reserved for Cox majors.

ACCT 3312 - Intermediate Accounting II
Credits: 3
Continuation of ACCT 3311. Focuses on items on the right-hand side (liabilities and stockholders' equity) of the balance sheet. Prerequisite: ACCT 3311. Reserved for Cox majors.

ACCT 3391 - Ethics in Accounting
Credits: 3
Develops students' ability to identify and evaluate ethical issues related to accounting and business management in a corporate environment. Students seeking accounting certification should note that ACCT 3391 is a gateway course for eligibility to take the CPA examination. Prerequisite: Accounting major with senior standing or ACCT 5325. Reserved for Cox majors.

ACCT 4307 - Data Analytics for Accounting
Credits: 3
Introduces advanced quantitative modeling techniques for business decision-making. Covers a variety of modeling techniques, business analytics concepts, and data analysis tools. Students learn to implement these techniques in spreadsheet models that assist businesses in understanding and managing risk and improving decision-making. Applications cover a broad range of functional areas, including operations, accounting, finance, marketing, and human resource management. Prerequisites: ACCT 2302, ITOM 2308, ITOM 3306, and FINA 3320. Reserved for Cox majors.

ACCT 4311 - Cost Accounting I
Credits: 3
Focuses on the measurement, accumulation, and control of costs. Topics include product cost accounting, cost behavior analysis, direct costing, standard cost variance analysis, and relevant cost analysis. Prerequisite: ACCT 2302. Reserved for Cox majors.

ACCT 4315 - Federal Income Tax I
Credits: 3
Covers the conceptual basis and structure for the determination of income taxes, including the tax research methods used in preparing tax returns, solving problems, and planning business decisions. Prerequisite: ACCT 2302. Reserved for Cox majors.

ACCT 5314 - Information Systems and Assurance
Credits: 3
Covers understanding, developing, and analyzing financial and management accounting systems; applying fundamental concepts to contemporary issues; and analyzing management internal control functions. Presents the behavioral characteristics and mechanics of accounting fraud. Prerequisite: ACCT 3311. Reserved for Cox majors.

ACCT 5315 - Advanced Accounting
Credits: 3
Addresses advanced accounting topics that fall into three general categories: specialized and complex aspects of accounting and financial reporting for inter-corporate transactions — and in particular, mergers and acquisitions; translation and remeasurement of foreign currency subsidiary statements; and accounting for derivative instruments.

Understanding of these topics is critical for preparers and users as they can materially affect practically every financial statement line item. Prerequisites: ACCT 3311, ACCT 3312. Reserved for Cox majors.

ACCT 5317 - Accounting Theory
Credits: 3
Study of selected topics and current issues in the area of accounting theory. Prerequisite: ACCT 3312. Reserved for Cox majors.

ACCT 5318 - Independent Studies in Accounting
Credits: 3
Directed research in accounting. Prerequisites: ACCT 3311, junior standing, and instructor approval.

ACCT 5319 - Independent Studies in Accounting
Credits: 3
Directed research in accounting. Prerequisites: ACCT 3311, junior standing, and instructor approval.

ACCT 5325 - Accounting Internship
Credits: 3
Prerequisites: Senior standing and departmental approval.

ACCT 5326 - Accounting Internship
Credits: 3
Prerequisites: Senior standing and departmental approval.

Business Administration and Business Leadership

Business Administration Courses

BA 3200 - Special Topics: International Business Administration
Credits: 2
Special topics in international business taught abroad.

BA 3300 - Special Topics: International Business Administration
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

BA 3301 - Special Topics: International Business II
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

BA 4111 - Business Internship
Credits: 1

BA 4112 - Business Internship
Credits: 1

BA 4113 - Business Internship
Credits: 1

BA 4311 - Business Internship
Credits: 3
Offered study abroad only.

BA 4312 - Business Internship
Credits: 3

BA 4315 - European Common Market
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

BA 4360 - Advanced Studies in Risk Management
Credits: 3
Students work with the professor on individualized research projects targeting risk management and insurance topics.

BA 5180 - Directed Study
Credits: 1
Directed research in business. Prerequisite: Junior standing and permission of the instructor.

BA 5280 - Directed Study
Credits: 2
Directed research in business. Prerequisites: ACCT 2312, junior standing, and permission of the instructor.

BA 5380 - Directed Study
Credits: 3
Directed research in business. Prerequisites: ACCT 2312, junior standing, and permission of the instructor.

Business Leadership Institute Courses

BLI 1110 - Business Discovery
Credits: 1
Introduces various business topics, including an overview of business disciplines and careers in those fields as well as the development of skills for effective career management. Restricted to students in the BBA Scholars and Business Direct Program.

BLI 1210 - Business Communications
Credits: 2
Promotes students' professional success as effective communicators. Covers interpersonal skills and the vital role that ethics and integrity play in successful businesses and organizations. Develops structure and skills for oral business presentations, business writing, capstone team projects, and team presentations. Students complete BLI 1210 during their first year at SMU. Reserved for BBA Scholars and Business Direct students.

BLI 3302 - Business Communications and Leader Development
Credits: 3
Promotes students' professional success as effective communicators and leaders. Covers interpersonal skills and the vital roles that ethics, integrity, and trust play in leading a successful business. Develops skills for effective career management, oral presentations, business writing, teamwork, project management, global communication, and increases understanding of contemporary business topics. Students should be enrolled in BLI 3302 in their first semester in the Cox school. Reserved for Cox majors and BBA Scholars.

Finance

Professor James S. Linck, **Department Chair**

Professors: James S. Linck, William F. Maxwell, Darius P. Miller, Kumar Venkataraman, Michel R. Vetsuypens
Associate Professors: Amar Gande, Stacey Jacobson, Chotibhak Jotikasthira
Assistant Professors: Anna Cororaton, Ruidi Huang, Diego Leal, Shawn McFarland, Erik Mayer, Jayoung Nam, Tarun Patel, Jinming Xue
Professor of Practice: Donald Shelly
Clinical Professors: Michael L. Davis, Mukunathan Santhanakrishnan, Art Selender

Finance, B.B.A.

To earn the B.B.A. degree with a major in finance, students must complete all University-wide requirements and the core B.B.A. degree requirements, and satisfy the finance requirements listed below.

Note: The core finance courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Required Courses (20 Credit Hours)

- FINA 4125 - Advanced Corporate Finance Lab
- FINA 4126 - Quantitative Financial Modeling Lab
- FINA 4325 - Advanced Corporate Finance
- FINA 4326 - Investment Analysis and Portfolio Management
- FINA 4327 - Derivatives
- FINA 4329 - International Finance
- ACCT 3311 - Intermediate Accounting I
- ACCT 3312 - Intermediate Accounting II

Elective Courses (2-4 Credit Hours)

Choose one course from the following list:

- FINA 5241 - Quantitative Trading and Strategies
- FINA 5244 - Special Topics in Energy Finance
- FINA 5331 - Advanced Concepts in Financial Management
- FINA 5332 - Practicum in Asset and Wealth Management
- FINA 5343 - Markets and Financial Intermediation
- FINA 5441 - Alternative Assets

Total for the Major Only: 22-24 Credit Hours

Financial Consulting, B.B.A.

To earn the B.B.A. degree with a major in financial consulting, students must complete all University-wide requirements and the core B.B.A. degree requirements, and satisfy the additional finance counsulting requirements listed below.

Note: The core accounting and finance courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Accounting Core (9 Credit Hours)

- ACCT 3311 - Intermediate Accounting I
- ACCT 3312 - Intermediate Accounting II
- ACCT 4315 - Federal Income Tax I

Finance Core (11 Credit Hours)

- FINA 4125 - Advanced Corporate Finance Lab
- FINA 4126 - Quantitative Financial Modeling Lab
- FINA 4325 - Advanced Corporate Finance
- FINA 4326 - Investment Analysis and Portfolio Management
- FINA 4329 - International Finance

Electives: (6 Credit Hours)

Selected from the following:

- ACCT 4307 - Data Analytics for Accounting
- ACCT 4311 - Cost Accounting I
- ACCT 5317 - Accounting Theory
- FINA 4327 - Derivatives
- FINA 5241 - Quantitative Trading and Strategies
- FINA 5244 - Special Topics in Energy Finance
- FINA 5331 - Advanced Concepts in Financial Management
- FINA 5332 - Practicum in Asset and Wealth Management
- FINA 5343 - Markets and Financial Intermediation
- FINA 5441 - Alternative Assets

Total for the Major Only: 26 Credit Hours

Finance Courses

FINA 3300 - Topics in International Finance
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

FINA 3320 - Financial Management
Credits: 3
Survey of concepts, practices, and problems surrounding financial markets, securities, and decision-making. Includes time value of money, market efficiency, evaluation of securities, and capital budgeting. Prerequisites: ACCT 2301; ECO 1311 and ECO 1312; MATH 1309 or MATH 1337; STAT 2301 or one from the following: CS 4340, EMIS 3340, ITOM 2305 , STAT 2331, STAT 4340. Reserved for Cox majors and minors in business administration. Students will not receive credit for this course and ECO 4368.

FINA 4125 - Advanced Corporate Finance Lab
Credits: 1
Involves hands-on modeling of finance problems including valuation for capital budgeting, public and private

companies, integrated cash flow models, and exposure to handling large financial databases. Prerequisite: FINA 3320. Corequisite: FINA 4325. Reserved for Cox majors.

FINA 4126 - Quantitative Financial Modeling Lab
Credits: 1
Involves hands-on advanced financial modeling, exposure to Bloomberg terminals and handling large financial databases, advanced topics in using market and portfolio data. Corequisite: FINA 4326. Prerequisite: FINA 3320. Prerequisites or corequisites: FINA 4325 and FINA 4125. Reserved for Cox majors.

FINA 4325 - Advanced Corporate Finance
Credits: 3
In-depth analysis of capital budgeting, cost of capital, sources of capital open to the firm, capital structure, dividend policy, mergers, and bankruptcy. Prerequisite: FINA 3320. Corequisite: FINA 4125. Reserved for Cox majors.

FINA 4326 - Investment Analysis and Portfolio Management
Credits: 3
Evaluates the interactive effects of economic, industry, company, and market considerations on the risk and return of individual assets. Analyzes the interrelationships of risky assets when combined in portfolios; also asset pricing theory and implications. Prerequisite: FINA 3320. Prerequisites or corequisites: FINA 4325 and FINA 4125. Must be taken concurrently with FINA 4126. Reserved for Cox majors. Students may not receive credit for this course and ECO 4378.

FINA 4327 - Derivatives
Credits: 3
Introduces analysis of financial derivatives such as futures, swaps, and options. Covers the underlying theories explaining derivatives markets and discusses strategies such as hedging and arbitrage. Prerequisites: FINA 4325 and FINA 4125, FINA 4326 and FINA 4126. Reserved for Cox majors.

FINA 4329 - International Finance
Credits: 3
Examines international financial markets and such issues as interest rate differences between countries' spot and forward transactions in international currencies, and the impact of international operations for the corporate financial manager. Prerequisites: FINA 4325 and FINA 4125. Reserved for Cox majors.

FINA 5241 - Quantitative Trading and Strategies
Credits: 2
Covers a number of issues and quantitative trading strategies most often used in the hedge fund management arena. Focuses on standard hedge fund strategies like long/short equity and convertible arbitrage and hedge fund strategies that exhibit asymmetric risk, fixed-income arbitrage, commodity investing, commodity trading advisors, and macro fund strategies. Covers the measurement of hedge fund returns for the purpose of putting together a hedge fund of funds from an analytical perspective. Prerequisites: FINA 4325, FINA 4125, FINA 4326, FINA 4126. Application required. Reserved for Cox majors.

FINA 5244 - Special Topics in Energy Finance
Credits: 2
Provides students with detailed knowledge of valuation methods, project finance, risk management practices, geopolitical risks, and institutional players in the energy industry. Topics vary from term to term. Prerequisites: FINA 4325, FINA 4125, FINA 4326, FINA 4126. Application required. Reserved for Cox majors.

FINA 5325 - Independent Study
Credits: 3
Directed research in finance. Prerequisites: FINA 3320, junior standing, and permission of the instructor.

FINA 5331 - Advanced Concepts in Financial Management
Credits: 3
Selected advanced topics in corporate finance. Varies as to when offered, and what topics are covered. Prerequisites: FINA 4325, FINA 4125, FINA 4326, FINA 4126.

FINA 5332 - Practicum in Asset and Wealth Management
Credits: 3
Offers practical experience in investments through management of the Ann Rife Cox Investment Fund. Economic and industry analysis and determining how that analysis affects investment decisions. Topics include money and capital market forecasts, selection of individual securities, development of a portfolio strategy, and additional topics in asset and wealth management. Prerequisites: FINA 4325, FINA 4125, FINA 4326, FINA 4126. By application.

FINA 5343 - Markets and Financial Intermediation
Credits: 3
Analyzes the structural interrelationships among the important participants in the U.S. financial markets and the management of financial institutions. Topics include flows of funds, determinants of interest rates, monetary policy and interest rates, money and capital market instruments, commercial banks and other lending institutions, regulation of financial institutions, and risk management in financial institutions. Prerequisites: FINA 4325 and FINA 4125. Reserved for Cox majors.

FINA 5345 - Energy Project Valuation and Finance
Credits: 3
Covers valuation, organization, and funding of major energy industry projects. Examines sources of external finance, energy banking, nonrecourse financing, the links between project structure and financial performance, and the volatility of energy prices. Also, master techniques needed to assess and manage commodity price risk, basis risk, and effective hedging strategies. Requires laptops in class with Microsoft Excel and advanced spreadsheet tools. Prerequisites: FINA 4325, FINA 4125, FINA 4326, FINA 4126. Reserved for Cox majors.

FINA 5441 - Alternative Assets
Credits: 4
Focuses on leveraged finance and the necessary skills to calculate total enterprise valuation. Also, the different segments of leveraged finance: high-yield bonds, leveraged loans, credit default swaps, collateralized debt obligation, debtor-in-possession financing, and distressed investing. Prerequisites: FINA 3320 and ACCT 3311. Prerequisites or corequisites: ACCT 3312, FINA 4325 and FINA 4125. Application required. Reserved for Cox majors.

General Business

General Business, B.B.A.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours for the B.B.A. degree are distributed as follows:

Requirements for the Major

To earn the B.B.A. degree with a major in general business, students must comply with the core B.B.A. degree requirements and satisfy the following additional requirements:

- **Business electives** (any combination of Cox departments)

**All courses must be taken through enrollment at SMU.*

Total for the Major Only: 18 Credit Hours

Information Technology and Operations Management

Professor Amit Basu, **Department Chair**

Professors: Amit Basu, Ulrike Schulte, John H. Semple
Associate Professors: Sreekumar R. Bhaskaran, R. Canan Savaskan-Ebert, Fangyun T. Tan
Assistant Professors: Rowena Gan, Karthik Nattamai Kannan, Rajiv Mukherjee
Executive in Residence: Hettie Tabor
Professor of Practice: Allen Gwinn
Clinical Professors: Angelica Leskovskaya, Timothy McDonough, Amy V. Puelz

Business Analytics and Supply Chain Management, B.B.A.

To earn the B.B.A. degree with a major in business analytics and supply chain management, students must complete all University-wide requirements and the core B.B.A degree requirements, and satisfy the business analytics and supply chain management requirements listed below:

*All courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Required Courses (12 Credit Hours)

- ITOM 3355 - Software Tools for Business Analytics
- ITOM 3360 - Data Management for Business
- ITOM 4307 - Business Modeling with Spreadsheets
- ITOM 4320 - Supply Chain and Logistics Management

Elective Courses (6 Credit Hours)

selected from the following:

- ITOM 4334 - Artificial Intelligence and Machine Learning
- ITOM 4350 - Business Intelligence and Big Data
- ITOM 4361/MNO 4361 - Project Management
- ITOM 5321 - Business Analytics and Supply Chain Management Practicum

Total for the Major Only: 18 Credit Hours

Information Systems Courses

ITOM 2308 - Information Systems for Management
Credits: 3
Discusses information technology and information resources for business. Covers spreadsheet analytical tools for data analysis, reporting, and forecasting. Explores database technologies and business information tools including resources for storage, retrieval, aggregation, and reporting. Requires laptop capable of running the latest version of Microsoft Excel. Prerequisite: ITOM 2305 or one from the following: CS 4340, EMIS 3340, STAT 2331, STAT 4340. Reserved for Cox majors and minors in business administration only.

ITOM 3306 - Operations Management
Credits: 3
Introduces concepts, principles, problems, and practices of operations management, and discusses methods for building business analytics models to solve operational business problems effectively. Topics include decision analysis, optimization (particularly linear programming) and sensitivity analysis, time-series analysis and forecasting, inventory control, simulation, and project scheduling. Prerequisites: ACCT 2301; ECO 1311 and ECO 1312; ITOM 2308; MATH 1309 or MATH 1337; and one from the following: CS 4340, EMIS 3340, ITOM 2305 , STAT 2331, STAT 4340. Reserved for Cox majors and minors in business administration.

ITOM 3355 - Software Tools for Business Analytics
Credits: 3
Covers the essentials of computer programming and enables students to gain proficiency in structured programming in R and Python; basic data management, including acquisition, storage, and access to real world data; Exploratory Data Analysis (EDA); and programming of decision models. Learn data visualization methods for communicating with data using tools such as Tableau, Spotfire, and various open-source packages, and how to build insights and communicate these insights through stories. Prerequisite: ITOM 2308. Reserved for Cox majors.

ITOM 3360 - Data Management for Business
Credits: 3
Covers fundamental issues in database creation and design, including conceptual modeling, logical and physical design, data definition languages, and data manipulation languages like SQL. Covers methods for data capture, data extraction from databases, and the design of data-based applications to answer business questions related to the database. Homework assignments and an implementation project reinforce both the design issues and the practical skills covered in the course. Prerequisite: ITOM 3355. Reserved for Cox majors.

ITOM 4307 - Business Modeling with Spreadsheets
Credits: 3
Introduces advanced quantitative modeling techniques for business decision-making. Covers a variety of modeling techniques, business analytics concepts, and data analysis tools. Students learn to implement these techniques in spreadsheet models that assist businesses in understanding and managing risk and improving decision-making. Applications cover a broad range of functional areas, including operations, accounting, finance, marketing, and human resource management. Prerequisites: ACCT 2302, ITOM 2308, ITOM 3306, and FINA 3320. Reserved for Cox majors.

ITOM 4320 - Supply Chain and Logistics Management
Credits: 3
Covers the supply chain and logistics management from the perspective of a business analyst. Analyze the entire flow of information, materials, and services from suppliers through factories and warehouses to the end customer. Involves application of quantitative optimization and descriptive models to support supply chain and operations management decisions, using spreadsheets and other software. Students learn how supply chain design and planning decisions impact the performance of the firm as well as the entire supply chain. Prerequisites: ITOM 3306 and ITOM 4307. Reserved for Cox majors.

ITOM 4334 - Artificial Intelligence and Machine Learning
Credits: 3
Covers various methods for gaining insights from both structured and unstructured business data, and also understanding the various applications of artificial intelligence within organizations. Discusses machine learning and data mining technologies, such as neural networks, clustering, and association-based reasoning, and examines how companies can apply these technologies to different types of decision and planning problems. Also covers AI applications in various functional areas, such as training, customer service, process improvement, and operations. Prerequisite: ITOM 3360. Reserved for Cox majors.

ITOM 4350 - Business Intelligence and Big Data
Credits: 3
Starts with the design and use of enterprise data management systems for management decision support, such as

data warehouses and data marts, multidimensional databases, and OLAP. Provides hands-on experience with data warehouses and related peripheral systems, as well as data management skills that are essential for successful business analytics in large and medium-size traditional enterprises. Covers Hadoop and Spark, the platforms at the heart of most big data analytics initiatives. Heavy emphasis on the development of skills required for students to be successful as analysts. Prerequisite: ITOM 3360. Reserved for Cox majors.

ITOM 4361 - Project Management
Credits: 3
Presents a set of practices and interpersonal skills designed to deliver business results that are on time and on budget and meet quality standards. Examines project management in modern industries and organizational structures as a preferred, standard process to achieve successful results. Discusses defining the project goals, developing a plan to achieve the goals, executing the plan, and evaluating progress. Covers interpersonal skills, including communication, collaboration, and team management. Prerequisite: MNO 3370. Reserved for Cox majors.

ITOM 5321 - Business Analytics and Supply Chain Management Practicum
Credits: 3
A project course that enables students to understand the complexities of a complete BASM project and the major components of the system development life cycle (SDLC) and agile analytics development. Students work with real companies to understand their business analytics challenge and, using real data, apply the academic concepts, including the analysis of the business needs which they have learned in the classroom, to build a solution for the company. Prerequisites: ITOM 3355, ITOM 3360, ITOM 4307 and ITOM 4320. Reserved for Cox majors.

Management and Organizations

Professor Marcus Butts**, Department Chair**

Professors: Albert W. Niemi, Robin L. Pinkley, Linda B. Stearns, Zhen Zang
Associate Professors: Marcus Butts, Maribeth Kuenzi, Don VandeWalle
Assistant Professor: McKenzie Rees

Management, B.B.A.

To earn the B.B.A. degree with a major in management, students must complete all University-wide requirements and the core B.B.A. degree requirements, and satisfy the management requirements listed below.

Note: The core management courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Required Courses (6 Credit Hours)

Two from the following:

- MNO 3371 - Human Capital and Talent Management
- MNO 4361 - Project Management

- MNO 4371 - Leadership and Culture
  or
- MNO 4372 - Leadership and Culture in the Southwest

Elective Courses (6 Credit Hours)

Two from the following:

- MNO 3373 - Negotiations
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- MNO 4330 - Management Consulting and Organizational Change

- MNO 4371 - Leadership and Culture
  or
- MNO 4372 - Leadership and Culture in the Southwest (if not taken for core requirement)

- RMI 4340 - Employee Benefits
- CISB 2379 - Identifying Entrepreneurial Opportunities
- CISB 4398 - Managing the Entrepreneurial Business
- CISB 5397 - Entrepreneurship: Starting a Business (if senior core is completed with STRA 5370)
- ITOM 4307 - Business Modeling with Spreadsheets (ACCT 4307 will not count for the major)
- STRA 5370 - Strategic Management in a Global Economy (if senior core is completed with CISB 5397)

Other Business Electives (6 Credit Hours)

Total for the Major Only: 18 Credit Hours

Management and Organizations Courses

MNO 3300 - Special Topics in International Management I
Credits: 3
Offered through SMU Abroad.

MNO 3301 - Special Topics in International Management II
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

MNO 3370 - Management
Credits: 3
Develops skills in managerial behavior that facilitate high performance and satisfaction as well as continued self-development for all organization members. Prerequisites: ACCT 2301; ECO 1311 and ECO 1312; MATH 1309 or MATH 1337; and one from the following: CS 4340, EMIS 3340, ITOM 2305 , STAT 2331, STAT 4340. Reserved for Cox majors, minors in business administration, or management science majors. BBA Scholars or Business Direct entering SMU Fall 2020 and beyond are not subject to the requisite requirements.

MNO 3371 - Human Capital and Talent Management
Credits: 3
A thought-provoking study of how companies manage and deploy their people assets. Students learn to become more effective people managers, examining the various techniques, strategies, and practices used by companies and managers to leverage their human capital. The content also ensures students are better equipped for their professional employment journeys, arming them with actionable insights on recruiting practices, compensation philosophies, and other practical business skills. Prerequisite: MNO 3370. Reserved for Cox majors.

MNO 3373 - Negotiations
Credits: 3
Presents theories and processes of negotiation as practiced in a variety of settings. Focuses on understanding the behavior of individuals, groups, and organizations in the context of competitive situations. Emphasizes simulations, role-playing, and cases. Prerequisite: MNO 3370. Reserved for Cox majors.

MNO 3375 - Corporate Social Responsibility and Ethical Leadership
Credits: 3
Develops managerial decision-making and stakeholder analysis through a study of ethical dilemmas in contemporary business. Topics include whistle blowing, corruption, bribery, human rights, crisis management, role of corporate boards, lobbying, philanthropy, externalities, and sustainability. Students seeking accounting certification should note that ACCT 3391 is a gateway course for eligibility to take the CPA examination. Prerequisite: MNO 3370. Reserved for Cox majors.

MNO 4330 - Management Consulting and Organizational Change
Credits: 3
Explores what it takes to be a highly successful consultant and how to apply that knowledge in practice. Examines the importance of both character and competence as well as communication skills in consulting. Provides skills based on proven frameworks that aid in assessing client needs and navigating change management issues. Woven throughout the course are experiential learning opportunities in consulting with an actual client, culminating with a final presentation to the client. Prerequisite: MNO 3370. Reserved for Cox majors.

MNO 4344 - Pandemics! The Science of Disease Spread, Prevention, and Control
Credits: 3
Explores the science of epidemic and pandemic prevention, treatment, and control, and examines what we've learned from pandemics across time, ranging from the bubonic plague to COVID 19. Prerequisite: Instructor consent required.

MNO 4345 - Global and Public Health Impact
Credits: 3
An interdisciplinary approach to creating sustainable impact in global, public, and population health. Taught through engaging discussions, case studies, and by helping local health organizations solve difficult institutional and community challenges. Prerequisite: Instructor consent required.

MNO 4361 - Project Management
Credits: 3
Presents a set of practices and interpersonal skills designed to deliver business results that are on time and on budget and meet quality standards. Examines project management in modern industries and organizational structures as a preferred, standard process to achieve successful results. Discusses defining the project goals, developing a plan to achieve the goals, executing the plan, and evaluating progress. Covers interpersonal skills, including communication, collaboration, and team management. Prerequisites: ITOM 2308, ITOM 3306, and MNO 3370. Reserved for Cox majors.

MNO 4371 - Leadership and Culture
Credits: 3
Enhances effectiveness and success as a leader. Emphasizes core theories of motivation, leadership, interpersonal relationships, culture, and communication. Prerequisite: MNO 3370.

MNO 4372 - Leadership and Culture in the Southwest
Credits: 3
Study of the psychological, behavioral economics, sociological, and organizational behavior foundations of leadership within the context of the human diversity factors of gender, ethnicity, and culture. Prerequisite: MNO 3370. (SMU-in-Taos)

MNO 4378 - Independent Studies in Organizational Behavior I
Credits: 3
Considers contemporary issues (theoretical, ethical, methodological, social, etc.) that are currently of interest to organizational theorists and behavioral scientists. Prerequisite: MNO 3370. Reserved for Cox majors.

Marketing

Professor Edward J. Fox, **Department Chair**

Professors: William R. Dillon, Matthew B. Myers, Raj Sethuraman, Zannie G. Voss
Associate Professors: Michael H. Braun, Edward J. Fox, Tasadduq Shervani, Jacquelyn S. Thomas
Assistant Professors: Chaoqun Chen, Matthew Fisher, Milica Mormann ,Wayne Taylor
Senior Lecturers: Charles A. Besio, Judith H. Foxman
Professor of Practice: Marci Armstrong
Visiting Assistant Professor: Justin Gressel, Joonwook Park

Marketing, B.B.A.

To earn the B.B.A. degree with a major in marketing, students must complete all University-wide requirements and the core B.B.A. degree requirements, and satisfy the marketing requirements listed below.
Notes:

- The core marketing courses must be taken through enrollment at SMU.
- ADV 1341 substitutes for MKTG 3340 for advertising majors or minors only.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Required Courses (9 Credit Hours)

- MKTG 3342 - Marketing Research
- MKTG 3343 - Consumer Behavior
- MKTG 5341 - Marketing Management

Elective Courses (6 Credit Hours)

Selected from the following:

- MKTG 3345 - Sales and Distribution Management
- MKTG 3346 - Retailing
- MKTG 3348 - International Marketing
- MKTG 3349 - Product and Brand Management
- MKTG 3350 - Digital and Social Media Marketing
- MKTG 4345 - Sports Marketing
- MKTG 5345 - Honors Marketing Practicum

Business Elective (3 Credit Hours)

Total for the Major Only: 18 Credit Hours

Marketing Courses

MKTG 3300 - Topics in International Marketing
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

MKTG 3340 - Fundamentals of Marketing
Credits: 3
Examines the nature of marketing decisions; the environment in which these decisions are made; and the

relationship of these decisions to the firm, business, and society. Prerequisites: ACCT 2301; ECO 1311 and ECO 1312; MATH 1309 or MATH 1337; and one from the following: CS 4340, EMIS 3340, ITOM 2305 , STAT 2331, STAT 4340. Reserved for Cox majors, minors in business administration, or management science majors. BBA Scholars or Business Direct entering SMU Fall 2020 and beyond are not subject to the requisite requirements. Students may not receive credit for both MKTG 3340 and ADV 1341.

MKTG 3342 - Marketing Research
Credits: 3
Explores the role of information in marketing decisions, discusses research methods, and teaches students how to plan and execute a research project. Prerequisite: MKTG 3340 or ADV 1341. Reserved for Cox majors.

MKTG 3343 - Consumer Behavior
Credits: 3
Helps students understand the motivation and behavior of buyers and consumers. Discusses consumer behavior within a marketing framework and relates it to marketing management. Prerequisite: MKTG 3340 and/or ADV 1341. Reserved for Cox majors. Students may not receive credit for MKTG 3343 and ADV 2301 unless the ADV credit predates enrollment in MKTG 3343. ADV 2301 will not be accepted for the Marketing major requirement.

MKTG 3345 - Sales and Distribution Management
Credits: 3
A multidisciplinary approach to the study of sales and sales force management. Focuses on the total sales process: selection, training, motivation, and compensation of personnel; sales forecasting; sales territory management; and analysis. Provides a fundamental understanding of the elements of the sales process and a management perspective to plan, organize, and direct a sales force. Prerequisite: MKTG 3340 and/or ADV 1341. Reserved for Cox majors.

MKTG 3346 - Retailing
Credits: 3
Examines the strategic role of retailing in the distribution of consumer goods and services. Students learn why consumer insight and superior execution are critical factors for building retail brands that will be successful in the future. Key topics include retail formats, multi-channel retailing, retail market strategy, merchandise assortment, supply chain, store layout and design, customer buying behavior, customer relationship management (CRM), retail pricing, and retail communication mix. Prerequisites: MKTG 3340 and/or ADV 1341. Reserved for Cox majors.

MKTG 3348 - International Marketing
Credits: 3
Examines international marketing from the underlying common nature of all humans in the global arena to the subtle nuances of localized marketing strategies in the subregions of international markets. Emphasizes novel problem-solving and an expanded worldview, with a focus on real-world approaches to understanding the global marketing environment. Prerequisite: MKTG 3340 or ADV 1341. Reserved for Cox majors.

MKTG 3349 - Product and Brand Management
Credits: 3
Deals with the management of product development programs and the appraisal of the many factors that affect product decision-making. Examines policies concerning branding, product line strategy, and compliance with social and government restrictions. Prerequisite: MKTG 3340 and/or ADV 1341. Reserved for Cox majors.

MKTG 3350 - Digital and Social Media Marketing
Credits: 3
Explains the most important digital marketing concepts and provides hands-on experience with relevant digital channels. Examines what it takes to conceive, plan and execute a digital campaign. Explores social media and emerging digital marketing trends. Topics include online ads, content marketing, mobile marketing, search engine marketing and social media. Prerequisite: MKTG 3340. Reserved for Cox majors.

MKTG 4345 - Sports Marketing
Credits: 3
Explores sports marketing from two perspectives: the marketing of sports and marketing through sports. Topics include fan segmentation, branding, licensing, and sponsorship. Prerequisite: MKTG 3340 and/or ADV 1341. Reserved for Cox majors.

MKTG 5050 - Marketing Internship
Credits: 0
Students must work in a professional capacity in a marketing-oriented position within a company. The company and job description must be approved by the marketing internship advisor prior to enrollment in the internship course, and the position must involve a minimum of 100 hours of work. Students may choose to take zero credits (MKTG 5050) or one credit (MKTG 5150) for the required internship. If one credit is chosen, the required minimum hours for the major will be increased from 51 to 52. Prerequisite: MKTG 3340. Reserved for Cox marketing majors.

MKTG 5150 - Marketing Internship
Credits: 1
Students must work in a professional capacity in a marketing-oriented position within a company. The company and job description must be approved by the marketing internship advisor prior to enrollment in the internship course, and the position must involve a minimum of 100 hours of work. Students may choose to take zero credits (MKTG 5050) or one credit (MKTG 5150) for the required internship. If one credit is chosen, the required minimum hours for the major will be increased from 51 to 52. Prerequisite: MKTG 3340. Reserved for Cox marketing majors.

MKTG 5341 - Marketing Management
Credits: 3
Provides a fundamental understanding of the marketing strategy planning process within the firm and develops skills for coping with the marketing management problems encountered by senior marketing managers, general management executives, and marketing consultants. This capstone course for marketing majors includes case analysis, class projects, and/or marketing simulation. Prerequisites: MKTG 3340 or ADV 1341. Reserved for senior marketing majors.

MKTG 5342 - Directed Studies in Marketing
Credits: 3
Directed research in marketing. Prerequisites: MKTG 3340, junior standing, and permission of the instructor.

MKTG 5343 - Directed Studies in Marketing II
Credits: 3
Directed research in marketing. Prerequisites: MKTG 5342, junior standing, and instructor approval.

MKTG 5345 - Honors Marketing Practicum
Credits: 3
Students apply marketing concepts and theories learned in the classroom to a real-life business situation by working with a business entity where they are responsible for researching, designing, and presenting a comprehensive integrated marketing campaign. Prerequisite: By application only. Reserved for Cox majors.

Real Estate, Risk Management and Business Law

Professor of Practice Joseph Cahoon, **Department Chair**

Clinical Professor: Wally Boudry
Professor of Practice: Joseph Cahoon
Associate Professor: Robert Puelz
Senior Lecturers: Catherine Weber

Real Estate, B.B.A.

To earn the B.B.A. degree with a major in real estate, students must complete all University-wide requirements and the core B.B.A. degree requirements, and satisfy the real estate requirements listed below.

Note: The core real estate courses must be taken through enrollment at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Required Courses (12 Credit Hours)

- RE 3381 - Real Estate Fundamentals
- RE 4338 - Real Estate Law
- RE 4382 - Real Estate Markets and Valuation
- RE 4389 - Real Estate Finance

Elective Courses (6 Credit Hours)

Selected from the following:

- ACCT 4307 - Data Analytics for Accounting
  or
- ITOM 4307 - Business Modeling with Spreadsheets

- BUSE 3300 - Evolution of American Capitalism
- BUSE 4332 - Energy and Environmental Law
- CISB 5397 - Entrepreneurship: Starting a Business (if senior core is completed with STRA 5370)
- FINA 4325 - Advanced Corporate Finance
- FINA 4326 - Investment Analysis and Portfolio Management
- FINA 4327 - Derivatives
- FINA 4329 - International Finance
- FINA 5331 - Advanced Concepts in Financial Management
- FINA 5332 - Practicum in Asset and Wealth Management
- MNO 3373 - Negotiations
- MNO 4361 - Project Management
- RE 4392 - Real Estate Capital Markets
- RE 5220 - Real Estate Practicum
- RMI 3360 - Principles of Risk Management

Total for the Major Only: 18 Credit Hours

Business Law Courses

BL 3300 - Special Topics: International Business Law
Credits: 3
Special topics in international business law taught abroad.

BL 3335 - Business Law
Credits: 3
Examines the nature, formation, and application of legal concepts relevant to business entities and operations. Prerequisites: ACCT 2301; ECO 1311 and ECO 1312; MATH 1309 or MATH 1337; and one from the following: CS 4340, EMIS 3340, STAT 2331, STAT 4340. Reserved for Cox majors.

BL 4300 - Special Topics: International Business Law
Credits: 3
Offered through SMU Abroad. Prerequisite: Junior standing.

Real Estate Courses

RE 3381 - Real Estate Fundamentals
Credits: 3
Introduces various aspects of the real estate property and capital markets, including market analysis, financing, investment, and legal principles. Serves as the foundation for other courses in real estate. Prerequisites: ACCT 2302 and FINA 3320. Reserved for Cox majors.

RE 4338 - Real Estate Law
Credits: 3
An in-depth study of legal principles and documents as they relate to the real estate industry. Classes include an overview of real estate, real estate principles, the judicial system, and real estate markets. Specific classes focus on understanding and documentation of various real estate transactions and legal issues in specific industry areas such as sales and acquisitions, leasing, finance, environmental, land use, water law, agency and brokerage, and regulation. Prerequisites: BL 3335 and RE 3381. Reserved for Cox majors.

RE 4382 - Real Estate Markets and Valuation
Credits: 3
Presents principles and techniques of estimating the value of residential and income producing properties. Considers the economic base and distribution of land use in urban areas. Includes case studies involving the cost, market compensation, and income approaches to valuation of real estate properties. Prerequisites: RE 3381 and FINA 3320. RE 3381 may be taken concurrently with the permission of the instructor and the department chair. Reserved for Cox majors.

RE 4389 - Real Estate Finance
Credits: 3
Students develop the technical competence necessary to finance and evaluate real estate investments. Covers computation of periodic payments, amortization schedules, and true borrowing costs. Also considers the secondary mortgage market, application of techniques for structuring real estate transactions, and financing real estate development. Prerequisites: RE 3381 and FINA 3320. Reserved for Cox majors.

RE 4392 - Real Estate Capital Markets
Credits: 3
Surveys the commercial real estate debt and equity markets and provides students with decision-making frameworks to connect individual assets and real estate capital sources. Leverages case studies, exercises, practical readings, and guest speakers to provide students with an analytical approach to allocating capital from an investment perspective. Prerequisite: RE 4389. Reserved for Cox majors.

RE 5220 - Real Estate Practicum
Credits: 3
A real estate industry-focused experiential learning opportunity that equips students to compete in industry-focused case study competitions and prepares them for post-graduate careers in real estate. Students must commit to compete in at least one national case study competition sponsored by the Folsom Institute for Real Estate. Students are also required to attend Folsom Institute-sponsored real estate technology training programs outside of the class. As a final project, all student teams compete against each other in an internal SMU Cox real estate-focused case study competition. This course requires significant out-of-class work. Prerequisite: RE 3381. Reserved for Cox majors. Instructor consent required.

Risk Management and Insurance Courses

RMI 3360 - Principles of Risk Management
Credits: 3
Focuses on the principles of risk and the role of insurance in handling risk. Topics include insurance markets, insurance operations, personal insurance contracts and risk management for organizations. Reserved for Cox majors.

RMI 4340 - Employee Benefits
Credits: 3
Examines employee benefits as both a strategic decision for employers and an important financial planning element for employees. Covers typical employee benefits and contrasts qualified and nonqualified plans. Also analyzes the complexities of the Affordable Care Act (including its social and economic implications) and the dynamics of global employee benefits. Prerequisite or corequisite: MNO 3370. Reserved for Cox majors.

RMI 4360 - Insurance and Corporate Risk Management
Credits: 3
Explores the evolution of business risk management and discusses the risk management process for organizations. Topics include risk assessment, enterprise risk management and risk financing. Explains risk management decision-making for managers in a corporate environment. Prerequisite or corequisite: RMI 3360. Reserved for Cox majors.

RMI 5325 - Risk Management and Insurance Research
Credits: 3
Directed study research project on a risk management and insurance topic of academic interest. Through independent research and interaction with faculty, students undertake a review of relevant literature and report research results with advice and consent of a sponsoring faculty member. Reserved for Cox majors.

Strategy, Entrepreneurship and Business Economics

Professor Gordon Walker, **Department Chair**

Professor: Gordon Walker
Associate Professor: David T. Lei
Assistant Professors: Wendy Bradley, Yunok Cho, Daniel Jinyong Zyung
Professors of Practice: Robert A. Lawson, Helmuth Ludwig, Simon S. Mak, Gary T. Moskowitz, Harvey Rosenblum
Clinical Professor: Michael L. Davis
Executive-in-Residence: W. Michael Cox
Writer-in-Residence: Richard G. Alm
Research Associate Professor: Dean B. Stansel
Research Assistant Professors: Ryan Harrison Murphy, Meg Tuszynski

Business Economics Courses

BUSE 2301 - Life Cycle Economics: Personal Financial Planning for Today and Tomorrow
Credits: 3
Students focus on personal life cycle economics as the foundation for personal financial planning in a "hands-on" classroom environment. Typical topics include maximizing one's living standard, human capital estimation, credit scoring, investments, taxes, personal insurance, retirement tools, and benefits within the Social Security system. Analysis undertaken with spreadsheets and life cycle software. Students must bring a laptop that runs Microsoft Excel to each class. Open to all SMU students. Prerequisite: sophomore standing. For Cox majors/minors in business administration, this course counts as free elective credit only. For minors in business, this course will substitute for FINA 3312. Students may not receive credit for BUSE 2301 and FINA 3312.

BUSE 2311 - Perspectives on American Business Through the Lens of General Motors
Credits: 3
Examines the development of American business, with a focus on General Motors. Students explore perspectives on managerial, regulatory, and legal issues to gain a better understanding of how large businesses are run. Prerequisite: ACCT 2301. Prerequisite or corequisite: FINA 3320. Restricted to Cox B.B.A. students.

BUSE 3300 - Evolution of American Capitalism
Credits: 3
Discusses the evolution of capitalism in the American economy from the Colonial Period to the present. Topics include the evolution of women in the workforce, the economic situation for minorities in America, structural changes and the disappearance of the middle class, the growing income gap between rich and poor, the growth of government, the drift towards socialism, the intense competition among states for jobs and challenges to America's leadership in the global economy. Prerequisites: ECO 1311, ECO 1312. Reserved for Cox majors.

BUSE 3331 - From Prospect to Production to Kilowatts: The Business of Energy
Credits: 3
Provides an in-depth understanding of the petroleum, natural gas, coal, power generation, and alternative fuels market segments, with a focus on structure, key business drivers, and technologies. Recommended foundational course for students pursuing careers in energy, energy finance, or sustainability related disciplines. Prerequisite: Sophomore status. Reserved for Cox majors or by permission of instructor.

BUSE 4135 - Energy Private Equity Practicum
Credits: 1
Students work with a professor(s) and an industry sponsor – energy company, private equity firm, or other investment vehicle - to evaluate an energy investment opportunity and/or develop a strategic plan for the sponsor. Student may work on valuation, due diligence, risk management, market survey, or other analysis as required by the client. Prerequisite: BUSE 3331. Application required. Reserved for Cox majors.

BUSE 4332 - Energy and Environmental Law
Credits: 3
Examines the legal and regulatory issues applicable to energy as they relate to finance, investment, and the economics of the business. Provides the basic tools of an energy professional to identify and analyze the legal and regulatory issues related to energy and resource development and operation, property acquisition and divestiture, and project valuation and financing. Prerequisite: BUSE 3331. Reserved for Cox majors.

BUSE 4333 - Business Management, Planning, and Analysis in Energy
Credits: 3
Through energy industry case studies, examines modern operational, economic, and financial aspects of the modern energy industry as they relate to planning and decision-making in the firm, with particular emphasis on oil and gas and power generation. Topics include the energy transition, capital structure, reserve valuation, political risk, environmental risk, and sustainability. Prerequisite: BUSE 3331. Reserved for Cox majors.

BUSE 4334 - Global Energy Markets, Business, and Policy: Spikes, Myths, and Risks
Credits: 3
Examines the interrelationship among the economics of global energy markets, business profitability, and public policy as it relates to the energy business. Topics include the principles of exhaustible resource economics and their impact upon business decision-making, the impact of price shocks on the industry and the overall economy, and the global policy and regulatory environment faced by the industry. Prerequisites: BUSE 3331 or permission of instructor. Reserved for Cox majors or by permission of instructor.

Entrepreneurship Courses

CISB 2379 - Identifying Entrepreneurial Opportunities
Credits: 3
Explores how to recognize entrepreneurial opportunities in a variety of settings, with emphasis on identifying sources of ideas and entrepreneurial opportunities, aligning with personal goals, determining market and financial feasibility, and evaluating competitive issues. Reserved for BBA Scholars and business students only.

CISB 4340 - Entrepreneurial Legal Strategies
Credits: 3
Students apply practical legal tools and strategies to real-world situations commonly faced by startups and emerging ventures. Students select a startup concept and work through issues such as founders' agreements, raising venture capital, intellectual property monetization, global expansion, acquisitions, and exit. Reserved for Cox majors.

CISB 4398 - Managing the Entrepreneurial Business
Credits: 3
Explores the unique challenges and opportunities involved in the management and ownership of a closely held enterprise. Examines key business, personal, and interpersonal issues relevant to the continuity and management of these firms. Topics include strategic management and corporate governance, life cycle and systems analyses, and leadership. Prerequisite: MNO 3370. Reserved for Cox majors.

CISB 5397 - Entrepreneurship: Starting a Business
Credits: 3
Covers planning for a new business. Topics include the personal characteristics of entrepreneurs, profit and cash flow forecasts, sources of information, sales forecasts and the importance of relevant experience, entrepreneurial marketing, financing, and the business plan. Prerequisites: FINA 3320, MKTG 3340, and/or ADV 1341, MNO 3370, ITOM 2308. Reserved for Cox majors.

Strategy Courses

STRA 5370 - Strategic Management in a Global Economy
Credits: 3
Analyzes the processes of building competitive advantage and strategy execution in single- and multi-business firms, with emphasis on industry evolution, the boundaries of the firm, and global competition. Prerequisites: ACCT 2301 and ACCT 2302; FINA 3320; MKTG 3340 or ADV 1341; MNO 3370; ITOM 2305 or one from the following: CS 4340, EMIS 3340, STAT 2301, STAT 2331, STAT 4340; and ITOM 2308. Reserved for Cox majors.

Business Minors and Specializations

Business Administration Minor

Undergraduates with majors outside the Cox School may complete the minor in business administration.

Note: Management science majors in the minor in business administration take ITOM 2308; however, they take EMIS 3360 and EMIS 3362 instead of ITOM 3306.

Requirements for the Minor

The minor in business administration requires:

- Admission to the Cox School through the same admission process as admission to the business majors. **Note**: Admission requirements are found under Admission of SMU Students to a Business Major/B.B.A. Degree Program in the Admission section of this catalog.
- A minimum 2.000 business and 2.000 minor in business administration GPA.
- Completion of the 21 credit hours specified for the minor in business administration below and all related prerequisite courses.

Required Courses

Matriculated students must complete all credit hours toward the minor in business administration through enrollment at SMU. Students who transfer courses for this minor prior to SMU matriculation must still complete 21 credit hours in business through enrollment at SMU or SMU-approved international programs, and will need additional business courses beyond the 21 credit hours specified below for the minor in business administration to meet the SMU credit hour requirement. To earn a minor in business administration, students must satisfy the following requirements:

- ACCT 2301 - Introduction to Financial Accounting
- ACCT 2302 - Introduction to Managerial Accounting
- FINA 3320 - Financial Management
- ITOM 2308 - Information Systems for Management
- ITOM 3306 - Operations Management

- MKTG 3340 - Fundamentals of Marketing
  or
- ADV 1341 - Marketing Principles of Advertising (for advertising majors and minors only)

- MNO 3370 - Management

Total: 21 Credit Hours

Grading

Regular grading standards will be used. None of the 21 credit hours may be completed pass/fail for the minor in business administration. A minimum 2.000 GPA on all business courses attempted is required for satisfactory completion of the minor in business administration.

Business Minor

Undergraduates with majors outside the Cox School may complete the minor in business.

Requirements for the Minor

The minor in business requires:

- Completion of ACCT 2301 to declare the minor.
- Completion of the 18 credit hours specified for the minor in business and all related prerequisite courses.

Required Courses

Matriculated students must complete all credit hours toward the minor in business through enrollment at SMU. Students who transfer courses for this minor prior to SMU matriculation must still complete 18 credit hours in business through enrollment at SMU or SMU-approved international programs, and will need additional business courses beyond the 18 credit hours specified below for the minor in business to meet the SMU credit hour requirement. To earn a minor in business, students must satisfy the following requirements:

- ACCT 2302 - Introduction to Managerial Accounting
- FINA 3320 - Financial Management
- MNO 3370 - Management

- MKTG 3340 - Fundamentals of Marketing
  or
- ADV 1341 - Marketing Principles of Advertising (for advertising majors and minors only)

Two minor in business electives

Choose any two courses from the list below. If interested in a particular field, consider for the electives:

Accounting	ACCT 3311, ACCT 3312
Management	MNO 3371, MNO 3373, MNO 3375, MNO 4330, MNO 4361, MNO 4371
Marketing	MKTG 3342, MKTG 3343, MKTG 3345, MKTG 3346, MKTG 3348, MKTG 3350, MKTG 4345
Real Estate	RE 3381 (prerequisite), either RE 4382 or RE 4389
Law	BL 3335, CISB 4340
General Business	All courses listed above, and also BUSE 2301, BUSE 3331, CISB 2379, RMI 3360

Students interested in either the MSA or MSF programs may use the electives requirement to take courses in preparation. Please contact the BBA Advising and Records office to select elective courses.

Grading

Regular grading standards will be used. None of the courses may be completed pass/fail. A minimum 2.000 GPA on all business courses attempted is required for satisfactory completion of the minor in business.

Energy Management Specialization

Courses for the specialization will not double count toward the business core or the majors. No courses may be substituted for specialization courses.

Requirements for the Specialization (12 Credit Hours)

- BUSE 3331 - From Prospect to Production to Kilowatts: The Business of Energy
- BUSE 4332 - Energy and Environmental Law
- BUSE 4333 - Business Management, Planning, and Analysis in Energy
- BUSE 4334 - Global Energy Markets, Business, and Policy: Spikes, Myths, and Risks

Grading

Regular grading standards will be used. Grades in specialization courses will count in the student's business GPA and cumulative GPAs.

Entrepreneurship Specialization

Courses for the specialization will not double count toward the business core or the majors. No courses may be substituted for specialization courses.

Requirements for the Specialization (12 Credit Hours)

- CISB 2379 - Identifying Entrepreneurial Opportunities
- CISB 4340 - Entrepreneurial Legal Strategies
- CISB 4398 - Managing the Entrepreneurial Business
- CISB 5397 - Entrepreneurship: Starting a Business (STRA 5370 must be taken to complete B.B.A. core requirements)

Grading

Regular grading standards will be used. Grades in specialization courses will count in the student's business GPA and cumulative GPAs.

Real Estate Specialization

Courses for the specialization will not double count toward the business core or the majors. No courses may be substituted for specialization courses.

Requirements for the Specialization (12 Credit Hours)

- RE 3381 - Real Estate Fundamentals
- RE 4338 - Real Estate Law
- RE 4382 - Real Estate Markets and Valuation
- RE 4389 - Real Estate Finance

Grading

Regular grading standards will be used. Grades in specialization courses will count in the student's business GPA and cumulative GPAs.

Risk Management and Insurance Specialization

Courses for the specialization will not double count toward the business core or the majors. No courses may be substituted for specialization courses.

Requirements for the Specialization (12 Credit Hours)

- MNO 3373 - Negotiations
- RMI 3360 - Principles of Risk Management
- RMI 4340 - Employee Benefits
- RMI 4360 - Insurance and Corporate Risk Management

Grading

Regular grading standards will be used. Grades in specialization courses will count in the student's business GPA and cumulative GPAs.

Lyle School of Engineering

General Information

The Lyle School of Engineering, named in 2008 in honor of Dallas entrepreneur and industry leader Bobby B. Lyle, traces its roots to 1925, when the Technical Club of Dallas, a professional organization of practicing engineers, petitioned SMU to fulfill the need for an engineering school in the Southwest. In response to the club's request, the school began one of the first cooperative education programs in the United States, a program that continues today to put engineering students to work on real technical projects.

Included in the Lyle School of Engineering curricula are programs in civil engineering, computer engineering, computer science, electrical engineering, environmental engineering, mechanical engineering and management science. In 2000, a variety of programs were introduced to provide the combination of a traditional engineering curriculum and selected leadership coursework designed to train engineering students for futures in management, entrepreneurship and beyond.

The Dallas area's national prominence in high technology and research has been beneficial to the Lyle School of Engineering and its students. Corporate support for the Lyle School has generated a remarkable array of equipment and laboratories. Recent additions include the AT&T Mixed Signals Lab, the Texas Instruments Digital Signal Processing Lab, the Procter and Gamble Biomedical Research Lab, and the Nokia Wireless Communication Lab. Other laboratories include the Laser Micro-machining Laboratory, the Nanoscale Electro-Thermal Sciences Laboratory and the Enterprise Systems Design Laboratory. In addition, the Lyle School is the home of the following facilities:

Research Center for Advanced Manufacturing. RCAM provides the intellectual foundation for industry to collaborate with faculty and students to resolve generic, long-range challenges, thereby producing the knowledge base for steady advances in technology and their speedy transition to the marketplace.

Center for Laser Aided Manufacturing. CLAM addresses a number of research and development issues related to laser-aided intelligent manufacturing processes.

Center for Lasers and Plasmas for Advanced Manufacturing. The center conducts research of interest to the industry and SMU as part of a multiple university team and with support from the Industry and University Cooperative Research Centers Program of the National Science Foundation.

National Science Foundation Industrial/University Cooperation Research Center for Net-Centric Software and Systems. The Center for Net-Centric Software and Systems addresses fundamental software and systems research for the modeling, analysis, design, implementation, testing, deployment and evolution of net-centric and embedded systems.

Darwin Deason Institute for Cyber Security. The institute advances the science, policy, application and education of cyber security through basic and problem-driven, interdisciplinary research, and conducts broad programs of research that

- Apply an interdisciplinary approach to challenging problems and incorporate elements from disciplines not traditionally associated with cyber security, such as law, business and the social sciences.
- Create a science of cyber security and address priorities in the national arena.
- Help close the skills gap in cyber security by tapping into the innovation capabilities of students to meet the demand for trained cyber professionals.

Caruth Institute for Engineering Education. The institute develops programs that increase the number and diversity of students who graduate from U.S. high schools with both the enthusiasm and knowledge to pursue the engineering careers necessary for the U.S. to compete in a global economy.

Hunter and Stephanie Hunt Institute for Engineering and Humanity. More than 1 billion people around the world live on less than $1 per day; of those, 70 percent are women. The institute strives to change the standard of living for the world's poorest populations (including those in the U.S.), trains a new generation of engineers in

modern engineering applications and provides a deep exposure to global economics, cultural awareness, collaborative leadership and principles of sustainability.

Hart Center for Engineering Leadership. The center was created in 2008 with the belief that the leadership and professional development of engineering students should not wait until after graduation. In fact, the Lyle School maintains that this development should coincide with students' technical training as they become aware of what it means to be ethical and credible professional engineers.

HCEL designs programs around the Lyle School's engineering leadership framework, which engages students in developing their personal, relational, positional and contextual leadership awareness and skills. HCEL training gives students the tools to grow personally and professionally their entire lives and includes the following curricula, programs and events:

Leadership Development

- Leadership assessment tools identify students' understanding of leadership attributes, leadership strengths and areas of interest.
- Leadership instruction developed in collaboration with Lyle faculty is embedded in relational and experiential components of the Lyle School's engineering design courses.
- Grand Challenges Scholars program
- HCEL engineering ethics modules are infused in specific engineering classes.
- Leadership coaching is offered in group settings and is also available for individuals in some cases.
- The Student Engineering Joint Council holds retreats, events and leadership training.
- Lyle Engineering in the City offers community engagement and service learning activities.
- Partners in Leadership Mentoring pairs students with mid- to senior-level professionals.

Career Development

- Career coaching helps students research and prepare for interviews with engineering companies.
- Handshake allows students to register for interviews and submit résumés online.
- Engineering Mock Interview Day acclimates students to the interviewing process in a riskless environment.
- The Lyle Engineering Connections career fair attracts globally recognized companies seeking to hire engineers for internship, co-op and full-time positions.
- Internships and co-ops integral to the Lyle School are directed by HCEL staff.

Professional Engineering Licensure

All senior-year engineering students are encouraged to take the first part of the examination for professional engineering licensure in the state of Texas. Information on the exam, testing locations, fees, materials and other exam-related information is available at www.ncees.org/exams/fe-exam.

Department Information

All programs of education and research in engineering are conducted through the Lyle School of Engineering. The school is organized into the following departments:

Civil and Environmental Engineering (CEE)
Computer Science (CS)
Electrical and Computer Engineering (ECE)
Mechanical Engineering (ME)
Operations Research and Engineering Management (OREM)

Each curriculum is under the jurisdiction of the faculty of the department in which the program is offered.

The Lyle School of Engineering also offers graduate programs toward the degrees of Master of Science, Doctor of Engineering and Doctor of Philosophy.

The departments are the Lyle School of Engineering's basic operating and budgetary units. Each department is responsible for the development and operation of its laboratories at all levels of activity and for all purposes; for the content, teaching and scheduling of its academic courses; and for the conduct of research programs. The chief

administrative officer of each department is the department chair, who reports directly to the dean. More information on the Lyle School of Engineering and its programs is available at www.smu.edu/lyle.

Cooperative Education

The Lyle School of Engineering has a history of demonstrated commitment to the concept of cooperative education. The school was established in 1925 with a close relationship with the Technical Club of Dallas. Members of this group owned factories and engineering consulting firms and wanted to participate in the training and development of their incoming employees. The Technical Club asked SMU to include the Cooperative Education Program in the original design of the school.

SMU was one of the first universities in the Southwest to adopt this concept of practical education. From 1925 to 1965, all engineering undergraduate students participated in the SMU Co-op Program. Since 1965, the program has been optional.

The SMU Co-op Program is designed so each student can enhance his or her education and career by receiving professional training while alternating terms of classroom instruction. Participation in the program allows students to

- Confirm that they like working in their major.
- Discover the kind of work they like within their major.
- Establish a professional reputation.
- Earn the cumulative equivalent of one year of a new graduate's starting salary before graduation.
- Gain invaluable work experience when competing for full-time jobs upon graduation.

How the Cooperative Program Operates

Entry into the SMU Co-op Program is typically offered in the summer term after the sophomore year or the fall term of the junior year during the student's academic progression. Two sample terms of entry are shown below:

5 Work Terms			
PLAN A	Fall	Spring	Summer
First Year	SMU	SMU	Free
Sophomore	SMU	SMU	Industry
Junior	Industry	SMU	Industry
Senior 4th	SMU	Industry	Industry
Senior 5th	SMU	SMU	

4 Work Terms			
PLAN B	Fall	Spring	Summer
First Year	SMU	SMU	Free
Sophomore	SMU	SMU	Free
Junior	Industry	SMU	Industry
Senior 4th	SMU	Industry	Industry
Senior 5th	SMU	SMU	

Students who want to participate in the SMU Co-op Program should begin the application process during their first year to allow for career preparation. The application process includes attending Co-op Orientation, receiving interview skills training, résumé review, learning the job search process, and completing the Co-op Program application. The program director guides students through each step of the process.

Each applicant receives advising from the program's director and a direct result of advising is that the student gains a better understanding of individual options and a strategy for pursuing those options.

Who May Apply?

Any Lyle School of Engineering undergraduate student in good standing who has enough time remaining before graduation to alternate at least three times between terms of full-time work and terms of full-time school may apply for the Co-op Program. Transfer students must be admitted and accepted to SMU before applying.

When to Apply

Many students choose to begin the application process during the first term of their first year. This early start is especially beneficial for students planning to participate in fraternity/sorority recruitment during the second term of their first year. Students should apply two or more terms before the work term begins. The first of these terms is for preparation; the second is for applying and interviewing with companies.

Policies of the Cooperative Engineering Education Program

Since 1925, the school has created and maintained numerous corporate relationships. Many factors contribute to these relationships, including the quality of SMU's academics and research, the achievements of alumni, and SMU's close proximity to high-tech corporations. Each SMU Co-op Program student directly benefits from the program's strong corporate relationships and bears an obligation to preserve these relationships by following the Co-op Program Undergraduate Student Agreement. The agreement balances the student's individual needs with the long-term goal of maintaining the program's corporate relationships for future SMU students. The terms of the program include, but are not limited to, the following:

- Students must maintain good standing with SMU and their employer at all times.
- All training jobs must be approved in advance by the SMU Co-op Program director.
- Before each work term begins, undergraduate students in the program must enroll in the appropriate program course for the term when they work, including summer.
- SMU charges no fees or tuition for these courses. Each course is graded on a pass/fail basis by the program's director. The courses do not count toward graduation. The course numbers for each work term are, respectively, ENGR 1099, ENGR 2099, ENGR 3099, ENGR 4099, ENGR 5099.
- Students enroll at SMU each term, including summers, once they begin the program's rotation between work and school.
- Co-op students take full-time class loads at SMU during alternating school terms.
- Co-op students do not work part-time for the employer during school terms.
- Co-op students complete all work terms with the same company unless decided otherwise.
- Once a student accepts a Co-op Program position, the student may switch positions within the sponsoring company with the approval of the company.
- Each student in the program completes his or her originally planned number and sequence of alternating work terms. The term of graduation must be a term of full-time study at SMU.
- Each student in the program accepts responsibility for knowing and following all SMU Co-op Program regulations and those of the participating employer.
- Students agree to complete all of their University required paperwork even while participating in the Co-op Program (e.g., FAFSA, CSS Profile, enrolling for classes, enrolling for housing, applying for graduation in their last senior term.

Co-op Certificate

SMU Co-op Program students who complete at least three of their originally planned and scheduled Co-op Program work terms in good standing with the University and the SMU Co-op Program Office receive a noncredit Cooperative Education Program Certificate to coincide with graduation. For additional information, students should contact the Director of Career Development: phone 214-768-1845; email coop@lyle.smu.edu.

Undergraduate Engineering Internship Program

The internship program allows full-time students to include a minimum of three terms of professional work experience during their study. Students must have obtained junior-level class status prior to participating in the internship program. Students cannot simultaneously enroll in a full-time load of coursework and participate in a full-time work experience. A full-time course of study is defined as 12 or more credit hours per term, and a full-time work experience is defined as a minimum of 37.5 hours worked per week. In order to maintain satisfactory academic achievement, students enrolled in a full-time course load shall not work more than a maximum of 20 hours a week. Students who are actively participating in a full-time work experience shall not enroll in more than nine credit hours per term. Zero hours of credit will be awarded for each term of internship. Participation in this program will not jeopardize the full-time status of international students. Students who wish to participate in this program need to

- Receive an internship job offer relating to their major.
- Provide a job description to the Hart Center for Engineering Leadership.
- Complete the Undergraduate Engineering Internship Program Agreement form.
- Obtain the following approvals: faculty adviser, department chair, Director of Career Development in the Hart Center and the International Student Office (for all international students).

Once the necessary approvals are obtained, the student must register for the Undergraduate Internship Program course that is designated by the student's department (CEE 5050, CS 5050, ECE 5050, EMIS 5050, ME 5050).

Within two weeks of the end of the term or at the end of the internship, whichever comes first, the student must submit a report outlining the activities and duties of the internship. The student will submit a copy of the report to the faculty adviser, the International Office (if applicable) and the Director of Career Development of the Lyle School of Engineering. The Director of Career Development, in consultation with the student's adviser, will assess the report and recommend a grade of S (Satisfactory) or U (Unsatisfactory) to the Director of Undergraduate Advising and Student Records within two weeks of receiving the report. The student's work experience will be validated and recognized on the permanent transcript.

Admission

Note: Detailed information regarding SMU's admission requirements, regulations and procedures is found in the Admission to the University section of this catalog.

Prospective students interested in undergraduate degrees in engineering apply for undergraduate admission to SMU as first-year or transfer students through the Office of Admissions, Southern Methodist University, PO Box 750181, Dallas TX 75275- 0181. All first-year applicants admitted to SMU initially enter Dedman College. For students interested in majoring in engineering, a personal interview with Lyle School of Engineering's Recruitment and Retention Office is highly recommended. The Lyle School of Engineering's Office of Recruitment and Retention can be reached at 214-768-3041.

High School Preparation

Because of the high standards of the Lyle School of Engineering and the rigorous character of its curricula, it is essential that the entering student be well prepared in basic academic subjects in high school. To be successful in SMU engineering programs, the student should have the following academic strengths:

1. Academic success in an appropriate program of study in high school.
2. Strong evidence of aptitude for math and science demonstrated through the high school curriculum.
3. A minimum SAT math sectional score of 600 or a minimum ACT math of 27.

While these guidelines do not guarantee admission to SMU, they should assist students interested in studying engineering at SMU.

Admission to Advanced Standing

Admission From Dedman College and Other Schools Within SMU

After completion of the engineering subset, students are admitted to the Lyle School of Engineering through an interschool transfer. These transfers are approved by the appropriate department chair and the Director of Undergraduate Advising and Records. For admission, a student must have completed 24 credit hours, attained a 2.000 or higher cumulative GPA and completed the subset requirements as listed below.

Major	Subset Courses	Minimum Subset GPA and Grade Requirements
Civil Engineering	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, CEE 1302, CEE 2310/ME 2310	2.500
Computer Engineering	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, CS 1341, CS 1342, ENGR 1357	2.500 and C- or better in all subset courses
Computer Science	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, CS 1340 or CS 1341, CS 1342, ENGR 1357	2.500 and C- or better in all subset courses
Electrical Engineering	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, two of ECE 1350, ECE 2381, CS 1341, CHEM 1303, PHYS 1303	2.500

Environment Engineering	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, CEE 1302, CEE 2310/ME 2310	2.500
Management Science	WRTR 1312/WRTR 2305, WRTR 1313/WRTR 2306, MATH 1337, MATH 1338, EMIS 1360, CS 1340 or CS 1341, CS 1342	3.000 and C or better in all subset courses (Once a student enters SMU, all remaining subset courses must be completed through enrollment at SMU.)
Mechanical Engineering	ME 1302, CEE 2310/ME 2310, ME 2331, PHYS 1303, MATH 1338	2.700

With the exception of courses repeated using the Grade Replacement Repeat policy (formerly First-Year Repeat Policy), all attempts of subset courses are used in computing the civil engineering, computer science, computer engineering, electrical engineering, environmental engineering and mechanical engineering subset GPA. For the management science subset GPA, only the first graded attempt is included in the subset GPA except for courses repeated using the Grade Replacement Repeat policy (formerly First-Year Repeat Policy). The subset GPA for students who have Advanced Placement or International Baccalaureate credit is based upon the remaining graded subset courses. Current University grading policy, as summarized under Academic Forgiveness in the Grade Policies section of this catalog, permits forgiveness of academic work taken 10 or more years prior to the term of admission. Academic work forgiven under this policy will not be included in the subset GPA.

Admission by Transfer From Another Institution
Prospective transfer students interested in undergraduate degrees in engineering apply for undergraduate admission to SMU through the Office of Admissions, Southern Methodist University, PO Box 750181, Dallas TX 75275-0181. An undergraduate at a junior college, college or university may apply for transfer admission to SMU and the Lyle School of Engineering. Admission will be granted provided the prior academic records and reasons for transfer are acceptable to the Lyle School of Engineering. Transfer credit will be awarded in courses that have identifiable counterparts in curricula of the Lyle School of Engineering, provided they carry grades of *C*- or better. Transfer students will be expected to meet requirements equivalent to students admitted from Dedman College and other schools within SMU.

Transfer credit is awarded only for work completed at institutions that have regional or comparable accreditation. Because of the 60 credit hour SMU requirement for a bachelor's degree, there is a limit on the total amount of credit that may be applied toward a Lyle School of Engineering degree.

Academic Regulations

Graduation Requirements for Baccalaureate Degrees

Graduation from the Lyle School of Engineering with a bachelor's degree requires the following standards of academic performance:

1. A passing grade must be received in every course in the prescribed curriculum.
2. An overall GPA of 2.000 or better must be attained in all college and university courses.
3. An overall GPA of 2.000 or better must be attained in all coursework attempted for the degree through enrollment at SMU.
4. An overall GPA of 2.000 or better must be attained in all coursework attempted for the degree in the major field of study.
5. A minimum of 120
6. credit hours must be completed, including the University-wide requirements and the requirements met for a major in engineering or applied science.

SMU and Lyle Credit Requirements

For graduation from the Lyle School of Engineering, 60 credit hours must be earned as SMU credit, including 30 credit hours in the major department or interdisciplinary program. Of the last 60 credit hours earned toward a degree, 45 must be completed through enrollment in courses offered by the faculty of the Lyle School of Engineering. Exceptions to this requirement will be made only under unusual circumstances at the discretion of the Lyle School of Engineering faculty.

The Major
A candidate for a degree must complete the requirements for a major in one of the departments of the Lyle School of Engineering. The applicable requirements of the major are those in effect during the academic year of matriculation, or those of a subsequent academic year. Coursework counting toward a major may not be taken pass/fail. Majors must be officially declared (or changed) through the Lyle Office of Undergraduate Advising and Student Records.

Departmental Distinction Program
Students will be awarded departmental distinction by their major department upon successful completion of a special program of study, independent of their eligibility for Latin graduation honors or for graduation honors in the liberal arts. The special program of study leading to departmental distinction, undertaken in both the junior and senior years, requires independent reading and research beyond the regular departmental requirements for a degree. This award is conferred by the major department on the basis of criteria prescribed by the department, but all programs include the following requirements:

- A major GPA of 3.500 or higher.
- Successful completion of three hours of senior thesis approved by the academic adviser.
- Formation of a supervisory committee consisting of three members, with the chair being a resident tenured or tenure-track faculty member of the department, and a minimum of two full-time Lyle faculty members.
- Successful defense of the senior thesis, which consists of the presentation of the senior thesis in a public forum and subsequent oral examination by the supervisory committee to satisfy itself that the student performed the independent reading and conducted the research.

Currently, the Computer Science Department and the Electrical and Computer Engineering Department offer departmental distinction programs.

University-wide Requirements
All SMU undergraduate students share a common program of study designed to assure them of a broad liberal education regardless of their major. This requirement is designed to help each student learn to reason and think for oneself, become skilled in communicating and understanding, understand both the social and the natural worlds and one's own place and responsibilities in these environments, and understand and appreciate human culture and history in various forms, including religion, philosophy and the arts. Students should see the University-wide Requirements section of this catalog for more information.

Dual Degree Programs
The Lyle School of Engineering offers concurrent dual degree programs with other SMU schools. Students may design and pursue a second major or minor degree program in consultation with their academic adviser.

Accelerated Pathways Master's Degree Program
The Accelerated Pathways program permits undergraduate Lyle Engineering students to take some graduate courses as an undergraduate, which will count both toward B.A./B.S. and M.A./M.S. degrees. Up to nine (9) SCH of graduate course work may be permitted to be taken as an undergraduate and applied toward fulfilling the undergraduate degree requirements. In such cases, students may fulfill both Bachelor's and Master's degree requirements in as few as 21 SCH beyond the B.A./B.S. coursework.

Furthermore, because the graduate work is spread over two or more academic years, students have a greater selection of courses in both their undergraduate and graduate studies and are able to complete a thesis, should they so desire. The student must work closely with his or her academic adviser to ensure that the requirements of the Accelerated Pathways program, the B.A./B.S. degree, and the M.A./M.S. degree all are met.

Requirements
For students admitted to the Accelerated Pathways program, up to nine (9) SCH of graduate courses (7000-level and above) may be applied toward fulfilling the student's undergraduate program requirements. The student must complete a minimum of 21 term-credit hours of graduate course work at SMU beyond the undergraduate residency requirement to satisfy the graduate residency requirement. In addition, the Accelerated Pathways student is permitted to take additional graduate courses while an undergraduate, up to their eighth semester, that can be marked for graduate credit only. No graduate course work for graduate-only credit will be permitted after the eighth

semester, although the students will be permitted to take dual-credit graduate courses (up to 9 hours) even beyond the eighth semester. Furthermore, the student must take at least one of the courses for the graduate degree while holding graduate student status, i.e., after the student graduates with the undergraduate degree.

Note: Undergraduate students may take graduate courses only after they have reached senior status (90 or more earned credit hours).

Admission Requirements

For admission to the Accelerated Pathways program, the student must:

1. Be enrolled in an undergraduate program in the Lyle School of Engineering,
2. Have achieved junior-level status,
3. Apply no later than the semester before they finish their undergraduate studies,
4. Have an overall GPA of 3.0 or higher,
5. Upon request, provide three letters of recommendation, one from the student's academic adviser and two from other faculty members in the Lyle School of Engineering, and
6. Be accepted into the desired M.A./M.S. program.

Bachelor's Degree Requirements

All undergraduate degree requirements must be satisfied, with up to 9 SCH of graduate course work (7000 and above) applying toward the satisfaction of those requirements. It is important to note that the graduate courses must be taken at the 7000 level from the beginning, as no conversion from 5000 to 7000 will be permitted after the add/drop deadline in the semester the course is taken. The undergraduate adviser should be consulted on the appropriateness of the 7000 level dual-counting courses for the undergraduate degree.

Master's Degree Requirements

To receive a Master's degree under the Accelerated Pathways program, the student must have a cumulative GPA of 3.0 in the M.S. degree course work (including the graduate course work applied towards the undergraduate degree requirements), and satisfy all requirements for the Master's degree. The Master's degree requirements will be completed after the semester the student graduates with the Bachelor's degree. The designated graduate adviser should be consulted when registering for any graduate courses, to make sure that these courses satisfy requirements of the Master's degree pursued.

Programs of Study

The Lyle School of Engineering offers the following degrees:

Bachelor of Science With a Major in Civil Engineering
Bachelor of Science With a Major in Computer Engineering
Bachelor of Science With a Major in Electrical Engineering
Bachelor of Science With a Major in Environmental Engineering
Bachelor of Science With a Major in Mechanical Engineering
Bachelor of Science With a Major in Computer Science
Bachelor of Science With a Major in Management Science
Bachelor of Arts With a Major in Computer Science

Engineering work can be classified by function, regardless of the branch, as follows: research, development, design, production, testing, planning, sales, service, construction, operation, teaching, consulting and management. The function fulfilled by an engineer results in large measure from personal characteristics and motivations, and only partially from his or her curriculum of study. Nonetheless, while engineering curricula may be relatively uniform, the modes of presentation tend to point a student toward a particular large class of functions. Engineering curricula at SMU focus generally on engineering functions that include research, development, design, management and teaching – functions ordinarily associated with additional education beyond the bachelor's degree.

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, https://www.abet.org. The undergraduate computer science program that awards the degree Bachelor of Science is accredited by the Computing Accreditation Commission of ABET. The

undergraduate computer science program that awards the degree Bachelor of Arts is not accredited by a Commission of ABET. ABET does not provide accreditation for the discipline of management science.

Description of Courses

Courses offered in the Lyle School of Engineering are identified by a two-, three- or four-letter prefix code designating the general subject area of the course, followed by a four-digit number. The first digit specifies the approximate level of the course as follows: 1 – first year, 2 – sophomore, 3 – junior, 4 – senior and 5 – senior. The second digit denotes the credit hours associated with the course. The last two digits specify the course numbers. Thus, CS 4381 denotes a course offered by the Department of Computer Science at the senior (4) level, having three credit hours, and with the course number 81. The prefix codes are as follows:

CEE	Department of Civil and Environmental Engineering
CS	Department of Computer Science
ECE	Department of Electrical and Computer Engineering
EMIS	Department of Operations Research and Engineering Management
ENGR	Lyle School of Engineering Multidisciplinary Studies
ME	Department of Mechanical Engineering

Army Reserve Officers' Training Corps

While Army ROTC courses are not offered on the SMU campus, students can participate in the Army ROTC program at the University of Texas at Arlington by enrolling as they enroll for other SMU courses. Further program information and application procedures may be obtained by contacting the UTA Department of Military Science at 817-272-3281. Students who participate in the UTA Army ROTC program are responsible for their own travel and other physical arrangements.

Army ROTC offers students the opportunity to graduate as officers and serve in the U.S. Army, the Army National Guard or the U.S. Army Reserve. Army ROTC scholarships are awarded on a competitive basis. Each scholarship pays for tuition and required educational fees, and provides a specified amount for textbooks, supplies and equipment. Each scholarship also includes a subsistence allowance of up to $1,000 for every year the scholarship is in effect.

Students may enroll in the Army ROTC on-campus program as they enroll for other SMU courses. Army ROTC courses are listed under ROTC in the my.SMU schedule of classes, and permission to enroll must be obtained from Undergraduate Advising & Student Records at UGLyleAdvising@smu.edu or 214-768-3039.

For information about Air Force ROTC, see the Aerospace Studies: Air Force ROTC section in the Dedman College of Humanities and Sciences portion of the catalog.

Army Reserve Officers' Training Corps Courses

ROTC 1141 - Foundations of Leadership
Credits: 1
Fundamental concepts of leadership in a profession, with classroom and outdoor laboratory environments. Studies time management skills, basic drill, ceremony, physical fitness, repelling, leadership reaction, first aid, presentations, and marksmanship. Corequisite: ROTC 1180. Includes mandatory participation in independent physical fitness training, plus optional participation in a weekend field training exercise.

ROTC 1142 - Introduction to Leadership
Credits: 1
Application of principles of leadership through participation in physically and mentally challenging exercises with upper–division ROTC students, with a focus on communication skills, organizational ethics, and time management techniques. Corequisite: ROTC 1180. Includes mandatory participation in individual physical fitness training, plus optional participation in a weekend field training exercise.

ROTC 1143 - Army ROTC: Introduction to Leadership I
Credits: 1
Introduces basic military skills, including principles of emergency first aid, evacuation of casualties, map and compass reading, terrain association, cross–country navigation, principles of physical fitness training, and military inspections. Corequisite: ROTC 1180.

ROTC 1180 - Leadership Laboratory
Credits: 1
A practical laboratory of applied leadership and skills. Students plan, organize, and conduct training that is oriented toward leadership development. Topics include marksmanship and small-unit tactics. Multitier programs focus on individual skill levels. Uniform and equipment provided. May be repeated for credit.

ROTC 2248 - Evolution of Contemporary Military Strategy
Credits: 2
A review of contemporary military conflicts. Selected battles from World War II, Korea, Vietnam, and the Yom Kippur War are examined for impact upon current U.S. military doctrine, strategy, and weapons systems. Corequisite: All military science students must enroll or participate in ROTC 1180 unless exception is given by the PMS.

ROTC 2251 - Individual and Team Development
Credits: 2
Application of ethics–based leadership skills and fundamentals of the ROTC's Leadership Development Program. Develops skills in oral presentations, concise writing, event planning, coordination of group efforts, advanced first aid, land navigation, and military tactics. Corequisite: ROTC 1180. Includes mandatory participation in individual physical fitness training, plus optional participation in a weekend field training exercise.

ROTC 2252 - Individual and Team Military Tactics
Credits: 2
Introduces individual and team aspects of military tactics in small–unit operations. Includes use of radio communications, safety assessments, movement techniques, team safety and security, and pre–execution checks. Corequisite: ROTC 1180. Includes mandatory participation in individual physical fitness training, plus optional participation in a weekend field training exercise.

ROTC 2291 - Conference Course
Credits: 2
Supplements the military science curricula through concentrated, independent study in a narrower field of military skill or subject matter. May be repeated for credit. Does not count for PE credit. Prerequisite: Permission of the PMS.

ROTC 2343 - Leadership Training Camp
Credits: 3
A rigorous 5-week summer camp conducted at an Army post. Stresses leadership, initiative, and self-discipline. No military obligation incurred. Course completion qualifies the student for entry into the advanced course. Three different cycles offered during the summer, but spaces are limited by the Army. Candidates can apply for a space any time during the school year prior to the summer. Open only to students who have not taken all four of ROTC 1141, ROTC 1142, ROTC 2251, and ROTC 2252 and who pass an ROTC physical examination. P/F grade only.

ROTC 3341 - Leadership I
Credits: 3
Development of ability to evaluate situations, plan and organize training, learn military tactics, review case studies in leadership management, and develop teaching and briefing skills. Prerequisite: Permission of PMS. Corequisite: ROTC 1180.

ROTC 3342 - Leadership II
Credits: 3
Practical application of squad and platoon leadership in tactical situations, operation of small-unit communications systems, and development of the leaders' abilities to express themselves, analyze military problems, and prepare and deliver logical solutions. Demanding physical fitness training and performance-oriented instruction in preparation for summer field training. Prerequisite: Permission of PMS. Corequisite: ROTC 1180.

ROTC 3443 - National Advanced Leadership Camp
Credits: 4
A 5-week, off-campus field training course stressing the practical application of leadership management, with emphasis on tactical and technical military field skills. Open only to students who have successfully completed ROTC 3341 and ROTC 3342. P/F grade only.

ROTC 3495 - Nursing Advanced Summer Training
Credits: 4
A 7-week, off-campus internship at a major U.S. Army hospital for ROTC nursing students. This nursing practicum provides hands-on experience that integrates clinical, interpersonal, and leadership knowledge and skills. Practical experience and familiarization with Army nursing in a variety of clinical tasks in the areas of medical-surgical nursing, pediatrics, obstetrics, and, in some cases, intensive care in ICUs in some cases. May be used for partial

credit for NURS 3647 or 3347 with prior arrangement and approval of the dean of nursing. Prerequisites: Completion of the junior year of a baccalaureate nursing program and permission of the PMS.

ROTC 4341 - Advanced Leadership I
Credits: 3
Stresses leadership qualities necessary for command and staff functions and operations. Students plan and conduct meetings, briefings, conferences, physical training programs. Introduces the Army's logistical system and personnel management system. Also, preparation of after-action reports. Prerequisite: Permission of PMS. Corequisite: ROTC 1180.

ROTC 4342 - Advanced Leadership II
Credits: 3
Examines the ethical standards, professional roles, responsibilities, and uniqueness of the profession of officership. Includes case study analysis of military law and practical exercises on establishing an ethical command climate. Students complete a term-long senior leadership project that requires them to plan, organize, and demonstrate their leadership skills. Following course completion, students are commissioned as second lieutenants in the Army. Provides a basic working knowledge of the military justice system, with emphasis on company-level actions and requirements, including law of land warfare. Prerequisite: Permission of PMS. Corequisite: ROTC 1180.

ROTC 4391 - Conference Course
Credits: 3
Independent study on current topics in military science. Performance is assessed by oral examination, written test, or research paper, as arranged. May be repeated for credit. Prerequisite: Permission of PMS.

Civil and Environmental Engineering

Professor Barbara S. Minsker, **Chair**

Professors: Khaled F. Abdelghany, Paul Krueger, Zhong Lu, Nicos Makris, Barbara S. Minsker, Halit Üster
Associate Professors: Usama S. El Shamy, Andrew N. Quicksall, Brett Story, David A. Willis
Assistant Professor: Janille Smith-Colin
Senior Lecturer: John H. Easton
Lecturers: Mehrdad Aghagholizadeh, Jessie Marshall Zarazaga
Adjunct Faculty: Yasser Abdelhamid, Samir Bougacha, Mark K. Boyd, Robert Casagrande, Jennifer Cottingham, Weiping Dai, Roger O. Dickey, Diana Easton, Sina Iman, Qiguo Jing, Mehedy Mashnad, Steven D. McCauley, Elizabeth R. del Monte, Hope Rasmussen, Jon D. Rauscher, Patricia A. Taylor, Philip K. Turner, Mikel Wilkins, Rumanda K. Young

General Information

The mission of the CEE department is to advance learning and discovery in service to humanity. To that end, undergraduate programs within the Department of Civil and Environmental Engineering educate and train leaders in the fields of environmental protection, resource management, construction and engineering design. Programs are tailored to the individual needs and interests of CEE students, so that students with interests in studying global climate change, protecting the quality of the drinking water, or designing the next generation of high-rise buildings or smart highways receive the training they need to excel in their careers.

Civil and environmental engineering are inextricably linked. While civil engineering focuses on the infrastructure of modern society, environmental engineering is concerned with the well-being and health of people and the environment. Civil and environmental engineering functioned as a single integrated discipline in the early 1900s when it was critical to address sanitary problems to protect public health and to develop regional water supplies and the civil infrastructure to support rapid urbanization and early industrialization. Separate disciplines gradually emerged, evolving and broadening to address the overall quality and function of modern society – preserving the environment while enabling the realization of an enriched life through technology.

Civil Engineering Program

Civil engineers are engaged in planning, design, construction, maintenance and management of the infrastructure of modern society. They are responsible for the design of water supply and wastewater treatment systems; transportation systems such as highways, railways, waterways, mass transit, airports, ports and harbors; dams, reservoirs and hydroelectric power plants; thermoelectric power plants; transmission and communication towers; high-rise buildings; and even aircraft and aerospace structures, shuttles and space stations. Every major structure critical to this country, and global society, depends on the work of civil engineers.

The mission of the civil engineering program is to prepare graduates for professional practice and advanced studies by focusing on the following areas: structural engineering, geotechnical engineering, transportation planning, environmental engineering and water resources., Graduates will be equipped with the skills and knowledge necessary to be fully participatory members of civil engineering teams and contributors to civil engineering efforts conducted within the evolving global economy.

The mission and educational objectives of the civil engineering program are consistent with the missions of the Civil and Environmental Engineering Department, the Lyle School of Engineering, and the overall institutional mission of SMU, and were determined based on the needs of the program's various constituencies. The program prepares graduates to achieve the following educational objectives during the first 5 to 15 years of their professional careers:

1. Be entrusted by society to create a sustainable and resilient world and enhance the global quality of life through the practice of civil engineering.
2. Serve others competently, collaboratively, and ethically as either engineering designers, managers, or leaders in the public or private sectors.
3. Demonstrate mastery and leadership as builders, planners, environmental stewards, innovators, and advocates for public health, safety, and welfare.
4. Obtain licensing as professional engineers.

Environmental Engineering Program

The environmental field is dynamic and wide-ranging, comprising many different disciplines and professional roles. Environmental engineering involves not only traditional water and wastewater management, but also the management of hazardous and radioactive materials, pollution prevention and waste minimization, innovative hazardous waste treatment and site remediation processes, environmental and occupational health, resource conservation and recovery, sustainable development of natural resources, and air quality management and pollution control. In addition, modern manufacturing, both domestic and worldwide, focuses on using recycled and natural materials to fabricate products that are competitive in the marketplace and harmlessly degraded in the environment. The trend toward global manufacturing will grow stronger in the years ahead. Environmental challenges presented by this movement must be overcome if the economic and lifestyle benefits of globalization are to be extended to all peoples of the world.

The educational objectives of the environmental engineering program are consistent with the missions of the Civil and Environmental Engineering Department, the Lyle School of Engineering, and the overall institutional mission of SMU, and were determined based on the needs of the program's various constituencies. The program prepares graduates to achieve the following educational objectives during the first 5 to 15 years of their professional careers:

1. Be entrusted by society to create a sustainable and resilient world and enhance the global quality of life through the practice of environmental engineering.
2. Serve others competently, collaboratively, and ethically as either engineering designers, managers, or leaders in the public or private sectors.
3. Demonstrate mastery and leadership as builders, planners, environmental stewards, innovators, and advocates for public health, safety, and welfare.
4. Obtain licensing as professional engineers.

The environmental engineering program prepares graduates for professional practice and advanced study through a focus in the following areas: 1) water supply and resources, 2) environmental systems and process modeling, 3) environmental chemistry, 4) wastewater management, 5) solid waste management, 6) hazardous waste management, 7) atmospheric systems and air pollution control, and 8) environmental and occupational health.

Degrees Offered

The CEE Department offers undergraduate degrees as follows:

Bachelor of Science With a Major in Civil Engineering
Bachelor of Science With a Major in Environmental Engineering
Bachelor of Science With a Major in Environmental Engineering with a premedical track

Students wishing to get a second degree, such as in Mathematics, should consult the department granting the second degree.

The undergraduate programs in civil engineering and environmental engineering are accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org. Both the civil and environmental engineering programs are designed to prepare students for the Fundamentals of Engineering Examination, the first step toward licensure as a professional engineer. Engineering design is integrated throughout the civil and environmental engineering curricula, each culminating in a major design experience based on the knowledge and skills acquired in earlier coursework. In their senior year, the department's engineering students are required to take two terms of design where teams of two to four students work closely on practical projects sponsored by industry and government. Senior design projects incorporate engineering standards and realistic constraints including most of the following considerations: economic, environmental, sustainability, manufacturability, ethical, health and safety, social, and political. Both the civil and environmental engineering programs prepare students with:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply the engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.

4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.
8. An understanding of professional practice issues and an understanding of the roles and responsibilities of public institutions and private organizations pertaining to public policy and regulations.
9. An understanding of basic concepts in project management, business, and leadership.

Departmental Facilities

CEE departmental offices and instructional and research laboratories are located in the state-of-the-art J. Lindsay Embrey Engineering Building, which is certified as a Leadership in Energy and Environmental Design Gold Building in LEED's internationally recognized green building certification program. Teaching and research laboratories include dedicated space for air quality and meteorology, industrial hygiene, environmental microbiology, soil and water quality, mechanics of materials and structural engineering, hydraulics and hydrology, geotechnical engineering and transportation materials, infrastructure and environmental systems, and intelligent transportation systems.

The environmental teaching and research laboratories have sophisticated analytical capabilities for performing chemical analyses of air samples and for assessing the quality of water supplies and wastes and the effectiveness of water and waste treatment procedures. Major equipment includes a Thermo Scientific inductively coupled plasma mass spectrometer, a PerkinElmer fourier transform infrared spectrometer with attenuated total reflectance, a Dionex ion chromatography unit, an Agilent gas chromatography and mass spectrometry unit, a PerkinElmer thermogravimetric analyzer with scanning calorimetry, a Quantachrome surface area analyzer, and an Agilent high performance liquid chromatograph. Other miscellaneous equipment includes continuous ambient air monitoring devices, UV-visible spectrophotometers, pH and other specific ion meters, incubating ovens, microscopes, anaerobic chamber, furnaces, centrifuges, dissolved oxygen meters, several temperature control baths, hot and cold rooms, autoclave, microscopes, and a UV light reader.

Civil engineering teaching and research laboratories include dedicated space for structural engineering, hydraulics and hydrology, geotechnical engineering and transportation materials, and intelligent transportation systems. The structural laboratory is equipped for instruction and research on the behavior of materials under various loading conditions. This lab is equipped with an Instron 5582 universal materials testing machine, a 16' x 20' strong floor for small scale load and reaction frames, and comprehensive data acquisition capabilities. Data from string potentiometers, accelerometers, cameras, and strain gages is collected by a wired Strainbook 616 DAQ and Lord Microstrain wireless nodes through a Lord WSDA base station. Major hydraulics and hydrology laboratory equipment includes a 5-meter open channel flume with various accessories (e.g., undershot weir, rotary undershot gate, and sharp and broadcrested weirs), a basic hydraulics bench for fundamental fluid mechanics experiments (e.g., hydrostatic pressure forces, Bernoulli's theorem and pipe friction losses), and a hydrology study system for hydrology experiments (e.g., simulating rainfall over watersheds and measuring resulting outflow hydrographs, and groundwater flow profiles). The geotechnical engineering and transportation materials laboratory has a Geocomp soil testing equipment automated set, a Geocomp direct residual shear test system automated set, a pocket penetrometer and the torvane shear device, and liquid and plastic limit devices. Traditional geotechnical testing equipment such as sieve analysis, hydrometer, constant head/falling head permeameter, liquid and plastic limits, compaction, and relative density are also available.

The Embrey Building also houses computing facilities with general applications software and specialized software for engineering problems, including air dispersion modeling, AutoCAD, ArcGIS, hydrologic and hydraulic modeling, statistical analysis and stochastic modeling, structural analysis and design, transportation systems planning and analysis, and water quality modeling.

Civil Engineering, B.S.C.E.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Science (30 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- GEOL 1301 - Earth Systems
  or
- GEOL 1315 - Introduction to Environmental Science

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Civil Engineering and Design (60 Credit Hours)

- CEE 1302 - Introduction to Civil and Environmental Engineering
- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 2310 - Statics
- CEE 2320 - Dynamics
- CEE 2331 - Fundamentals of Thermal Science (Thermodynamics)

- CEE 2340 - Mechanics of Deformable Bodies
- CEE 2140 - Mechanics of Materials Laboratory

- CEE 2342 - Fluid Mechanics
- CEE 2142 - Fluid Mechanics Laboratory

- CEE 2361 - Construction Materials
- CEE 3307 - Infrastructure and Environmental Systems Analysis
- CEE 3310 - Computational Methods for Engineering Applications
- CEE 3323 - Water Resources Engineering
- CEE 3350 - Structural Analysis
- CEE 3385 - Soil Mechanics
- CEE 4180 - Civil and Environmental Engineering Design I
- CEE 4350 - Design of Steel Structures
- CEE 4351 - Design of Concrete Structures

- CEE 4381 - Civil and Environmental Engineering Design II
- CEE 5378 - Transportation Planning and Traffic Engineering
- CEE 5386 - Foundation Engineering
- ENGR 1357 - Introduction to Engineering Design

Civil Engineering Technical Electives (9 Credit Hours)
CEE 5000+ selected with adviser's approval.

Engineering Leadership (6 Credit Hours)
- CEE 3302 - Engineering Communications

One course from the following:
- CEE 2302 - Authentic Leadership
- CEE 5302 - Leadership in Development Sector
- CEE 5303 - Citizen Engineering with Community-Based Design Research
- CS 4360 - Technical Entrepreneurship
- EMIS 3308 - Engineering Management

Total for the Major Only: 105 Credit Hours

Environmental Engineering, B.S.Env.
SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
Mathematics and Science (35 Credit Hours)
- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CEE 2321 - Aquatic Chemistry

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- CEE 5319 - Soil Chemistry and Mineralogy
- CEE 5316 - Engineering Microbiology

Environmental Engineering and Design (50 Credit Hours)

- CEE 1302 - Introduction to Civil and Environmental Engineering
- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 2310 - Statics

- CEE 2342 - Fluid Mechanics
- CEE 2142 - Fluid Mechanics Laboratory

- CEE 3307 - Infrastructure and Environmental Systems Analysis
- CEE 3310 - Computational Methods for Engineering Applications
- CEE 3321 - Chemical Thermodynamics and Kinetics
- CEE 3323 - Water Resources Engineering
- CEE 3331 - Fundamentals of Air Quality I
- CEE 3341 - Introduction to Solid and Hazardous Waste Management
- CEE 3351 - Industrial Hygiene and Occupational Health
- CEE 4180 - Civil and Environmental Engineering Design I
- CEE 4381 - Civil and Environmental Engineering Design II
- CEE 5321 - Physical and Chemical Processes and Treatment
- CEE 5337 - Field and Laboratory Methods 1
- CEE 5338 - Field and Laboratory Methods 2
- ENGR 1357 - Introduction to Engineering Design

Environmental Technical Electives (6 Credit Hours)

CEE 5000+ selected with adviser's approval.

CEE Electives (6 Credit Hours)

CEE 3000+ selected with adviser's approval

Engineering Leadership (6 Credit Hours)

- CEE 3302 - Engineering Communications

One course from the following:

- CEE 2302 - Authentic Leadership
- CEE 5302 - Leadership in Development Sector
- CEE 5303 - Citizen Engineering with Community-Based Design Research
- CS 4360 - Technical Entrepreneurship
- EMIS 3308 - Engineering Management

Total for the Major Only: 103 Credit Hours

Environmental Engineering, B.S.Env. - Premedical Track

Curriculum Notes. Since students acquire communication skills throughout his specialized curriculum, the CEE department waives the CEE 3302 pre-requisite from CEE 4380.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Premedical Track

Mathematics and Science (62 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology
- BIOL 5310 - Biological Chemistry: Macromolecular Structure and Function
- CEE 5319 - Soil Chemistry and Mineralogy

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- CEE 2321 - Aquatic Chemistry

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Environmental Engineering and Design (50 Credit Hours)

- CEE 1302 - Introduction to Civil and Environmental Engineering
- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 2310 - Statics

- CEE 2342 - Fluid Mechanics
- CEE 2142 - Fluid Mechanics Laboratory

- CEE 3307 - Infrastructure and Environmental Systems Analysis
- CEE 3310 - Computational Methods for Engineering Applications
- CEE 3321 - Chemical Thermodynamics and Kinetics

- CEE 3323 - Water Resources Engineering
- CEE 3331 - Fundamentals of Air Quality I
- CEE 3341 - Introduction to Solid and Hazardous Waste Management
- CEE 3351 - Industrial Hygiene and Occupational Health
- CEE 4180 - Civil and Environmental Engineering Design I
- CEE 4381 - Civil and Environmental Engineering Design II
- CEE 5321 - Physical and Chemical Processes and Treatment
- CEE 5337 - Field and Laboratory Methods 1
- CEE 5338 - Field and Laboratory Methods 2
- ENGR 1357 - Introduction to Engineering Design

Environmental Technical Electives (6 Credit Hours)
CEE 5000+ selected with adviser's approval.

Total for the Major Only: 118 Credit Hours

Civil Engineering Minor
For approval of a minor in civil engineering, the student should consult the Civil and Environmental Engineering Department. A minimum of 15 credit hours in civil engineering courses are required. The following is an example of an approved set of courses, totaling 16 credit hours, that provides an emphasis on structural analysis and design: CEE 2310, CEE 2340/CEE 2140, CEE 3350, CEE 3385, CEE 4350. Based on the student's interests and background, other sets of civil engineering courses may be substituted with the approval of the Civil and Environmental Engineering Department.

Environmental Engineering Minor
Environmental Engineers design solutions for environmental (air, land, water) and health protection to create a sustainable and resilient world and enhance the global quality of life. In addition to traditional areas of practice, e.g., water and wastewater treatment, air pollution control, and solid and hazardous waste treatment and disposal practices, contemporary environmental engineers lead and participate on multidisciplinary teams to create smart, connected, resilient, and sustainable infrastructure for modern society. This minor provides students with a broad introduction to the environmental engineering field and signals to employers and graduate schools that they have formal knowledge of engineering design principles for environmental and human health protection.

For approval of a minor in environmental engineering, the student should consult the Civil and Environmental Engineering Department. A minimum of 15 credit hours in environmental engineering courses are required as follows.

Requirements for the Minor
Required Courses (9 Credit Hours)
- CEE 1302 - Introduction to Civil and Environmental Engineering
- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 2321 - Aquatic Chemistry

Choose two courses from the following: (6 Credit Hours)
- CEE 3323 - Water Resources Engineering
- CEE 3331 - Fundamentals of Air Quality I
- CEE 3341 - Introduction to Solid and Hazardous Waste Management
- CEE 3351 - Industrial Hygiene and Occupational Health
- CEE 3000 level and above course in Environmental Engineering (Department consent required)

Global Development Minor

Students may earn a minor in global development through the Civil and Environmental Engineering Department, supported by the Hunter and Stephanie Hunt Institute for Engineering and Humanity. A total of 18 credit hours are required, with a minimum of six credit hours at or above the 3000 level. All students are required to complete the introductory course CEE 1326.

Requirements for the Minor

Concentration Requirement

A depth component of six credit hours must be completed in one of the following concentration areas:

Environmental Resources

- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 3323 - Water Resources Engineering
- CEE 3341 - Introduction to Solid and Hazardous Waste Management
- CEE 3353 - Introduction to Environmental Toxicology
- CEE 5321 - Physical and Chemical Processes and Treatment
- CEE 5322 - Biological Processes and Treatment

Political, Cultural and Economic Issues

- EMIS 3309 - Information Engineering
- CEE 3355 - Environmental Impact Evaluation, Policy, and Regulation
- CEE 5311 - Environmental and Hazardous Waste Laws
- CEE 5325 - Disaster Management
- CEE 5328 - Introduction to Sustainability

Technology and Innovation

- CEE 1302 - Introduction to Civil and Environmental Engineering
- ME 1303 - Energy, Technology, and the Environment
- CEE 5327 - Optimization and Reliability for Infrastructure and Environmental Systems
- CEE 5329 - Methods and Technology for Sustainability
- CEE 5330 - Design for Sustainable Buildings and Infrastructure
- CEE 5378 - Transportation Planning and Traffic Engineering
- CEE 5384 - Energy Management for Buildings

Additional Requirements

An additional six hours of breadth are required, satisfied by taking one course from each of the two remaining concentrations. Students complete the capstone experience requirement by taking CEE 5391. The primary intent of the capstone experience is to incorporate site-based service learning opportunities for students through internships arranged by the Hunter and Stephanie Hunt Institute for Engineering and Humanity at the Lyle School of Engineering. Other opportunities, such as research, may also be accommodated based on individual student interests and career goals.

Total: 18 Credit Hours

Civil and Environmental Engineering Courses

CEE 1301 - Environment and Technology: Ecology and Ethics

Credits: 3

Introduces the economic, engineering, ethical, political, scientific, and social considerations of environmental decision-making and management. Examines local, regional, and global topics. Students take off-campus field trips.

CEE 1302 - Introduction to Civil and Environmental Engineering
Credits: 3
Introductory course that emphasizes fundamental science, engineering, and ecological principles. Students develop their analytical and critical thinking skills with real-world problem-solving. Many of the hallmarks of modern society (e.g., high-rise office buildings, increased life span, the virtual elimination of numerous diseases, and reliable long-distance and public transportation systems) are the result of work by environmental and civil engineers. Likewise, environmental and civil engineers are at work on the many problems currently confronting developing nations: housing supply, food production, air and water pollution, spread of disease, traffic congestion, and flood control.

CEE 1326 - Introduction to Global Development
Credits: 3
An interdisciplinary approach in addressing issues of international development. Explores the role and impact of economic, sociopolitical, and scientific principles on issues of the developing world. Lectures focus on the historical underpinning of current trends, theory, and practice of multidisciplinary development, modern issues facing the developing world, and potential courses of action.

CEE 1331 - Meteorology
Credits: 3
Meteorology is the science and study of the earth's atmosphere and its interaction with the earth and all forms of life. Meteorology seeks to understand and predict the properties of the atmosphere, weather, and climate from the surface of the planet to the edge of space. Appropriate for all interested undergraduates.

CEE 1378 - Transportation Infrastructure
Credits: 3
An overview and definitions of infrastructure elements, with a focus on transportation. Also, principals of infrastructure planning and management, and congestion and performance measures. Includes relationships with the economy, the environment, safety, homeland security, and technology.

CEE 2121 - Aquatic Chemistry Laboratory
Credits: 1
Examines aspects of chemistry that are particularly valuable to the practice of environmental engineering. Provides basic groundwork for the quantitative analysis of water and wastewater systems, and covers fundamental methods of instrumental analysis. Presents elements of thermodynamics, acid-base, redox, and colloidal chemistry as appropriate. Laboratory sessions emphasize design, hands-on conduct of experimental procedures, and interpretation and statistical analysis of derived data. Prerequisite: CHEM 1303. Pre-requisite or Co-requisite: CEE 2321.

CEE 2140 - Mechanics of Materials Laboratory
Credits: 1
Experiments in mechanics of deformable bodies, to complement CEE 2340. Simple tension tests on structural materials, simple shear tests on riveted joints, stress and strain measurements, engineering and true stress, engineering and true strain, torsion testing of cylinders, bending of simple supported beams, deflection of simply supported beams, buckling of columns, strain measurements of pressure vessels, Charpy impact tests, and the effect of stress concentrators. Corequisite: CEE/ME 2340.

CEE 2142 - Fluid Mechanics Laboratory
Credits: 1
One 3–hour laboratory session per week. Experiments in fluid friction, pumps, boundary layers, and other flow devices to complement lecture material of CEE 2342. Prerequisite or corequisite: CEE 2342/ME 2342.

CEE 2302 - Authentic Leadership
Credits: 3
Building key traits of authentic leadership and emotional intelligence that are critical to leadership success. Cultivating systems thinking about inter-dependencies between human and natural systems. Includes wilderness leadership trip. Prerequisites: WRTR 1312 and WRTR 1313, or equivalent.

CEE 2304 - Fundamentals of Environmental Engineering
Credits: 3
Introduction to a scientific and engineering basis for identifying, formulating, analyzing, and understanding various environmental problems, with a focus on material and energy balances for modeling environmental systems and processes. Examines traditional materials in air and water pollution, and emphasizes contemporary topics such as hazardous waste, risk assessment, groundwater contamination, global climate change, stratospheric ozone depletion, and acid deposition. Where appropriate, describes pertinent environmental legislation, derives and applies engineering models, and introduces treatment technologies. Prerequisites: CHEM 1303, MATH 1338.

CEE 2310 - Statics
Credits: 3
Equilibrium of force systems, computations of reactions and internal forces, determinations of centroids and moments of inertia, and introduction to vector mechanics. Prerequisite: MATH 1337 or equivalent.

CEE 2320 - Dynamics
Credits: 3
Introduction to kinematics and dynamics of particles and rigid bodies; Newton's laws; kinetic and potential energy; linear and angular momentum; and work, impulse, and inertia properties. Prerequisites: C or better in CEE 2310/ME 2310.

CEE 2321 - Aquatic Chemistry
Credits: 3
Examines aspects of chemistry that are particularly valuable to the practice of environmental engineering. Provides basic groundwork for the quantitative analysis of water and wastewater systems, and covers fundamental methods of instrumental analysis. Presents elements of thermodynamics, acid-base, redox, and colloidal chemistry as appropriate. Prerequisite: CHEM 1303.

CEE 2331 - Fundamentals of Thermal Science (Thermodynamics)
Credits: 3
The first and second laws of thermodynamics and thermodynamic properties of ideal gases, pure substances, and gaseous mixtures are applied to power production and refrigeration cycles. Prerequisites: MATH 3302, CHEM 1303, PHYS 1303, and C or better in CEE 2310/ME 2310.

CEE 2340 - Mechanics of Deformable Bodies
Credits: 3
Introduction to analysis of deformable bodies, including stress, strain, stress–strain relations, torsion, beam bending and shearing stresses, stress transformations, beam deflections, statically indeterminate problems, energy methods, and column buckling. Prerequisites: C or better in CEE 2310/ME 2310. Corequisite: CEE 2140/ME 2140.

CEE 2342 - Fluid Mechanics
Credits: 3
Fluid statics, fluid motion, systems and control volumes, basic laws, irrotational flow, similitude and dimensional analysis, incompressible viscous flow, boundary layer theory, and an introduction to compressible flow. Prerequisites: CEE 2310/ME 2310, MATH 3302, PHYS 1303. Prerequisite or corequisite: MATH 3313.

CEE 2361 - Construction Materials
Credits: 3
Introduces the materials used in civil engineering construction including steel, reinforced concrete, asphalt, masonry, and timber. Course content is focused on the fundamental properties and behavior of materials for civil engineering applications. Topics include characteristics and mechanical behavior of materials, concrete and asphalt mix design, and materials testing. Prerequisite: MATH 1337 or equivalent. Prerequisite or corequisite: CEE 2310.

CEE 2372 - Introduction to CAD
Credits: 3
Provides hands-on, state-of-the-art experience with computer-aided drafting using AutoCAD to produce drawings used for engineering presentations and construction. Students draw lines and curvilinear lines, use blocks and

external references, write text, create plot files, and apply many other commands necessary to produce engineering drawings as used to construct environmental, civil, and structural engineering projects.

CEE 3302 - Engineering Communications
Credits: 3
Both oral and written communications skills for engineers: engineering documents, writing standards, and presentations. Includes audience analysis, graphics, collaborative skills, and ethical issues. Students prepare several documents and presentations common in engineering practice. Prerequisite: Junior or senior standing in engineering.

CEE 3307 - Infrastructure and Environmental Systems Analysis
Credits: 3
Introduces students to basic analytical techniques commonly used in the conceptualization, planning, design, and operation management of large-scale civil and environmental infrastructure systems. Topics covered include conceptualization and planning of infrastructure projects; engineering economics and decision making; analytical techniques for infrastructure system design; life-cycle and risk analyses; and data analysis methodologies for infrastructure operation management. Prerequisite: CEE 1302. Prerequisite or corequisite: CS 4340/EMIS 3340/STAT 4340 or STAT 4341.

CEE 3310 - Computational Methods for Engineering Applications
Credits: 3
Applications of numerical analysis and computer programming techniques to civil and environmental engineering problems. Review of mathematical background is presented with emphasis on numerical modeling and computer-oriented solutions for engineering applications. Topics covered include precision and accuracy, errors, roots of equations, solution of linear algebraic equations, statistics and curve fittings, and numerical integration and differentiation. Also reviews examples from different areas of practice in civil and environmental engineering, including stress transformation, numerical integration to obtain beam deflection, numerical solution of Euler's buckling equation, roots of the equation for fluid flow in frictional pipe, optimization techniques applied to minimum potential energy, and solutions to the system of equations representing force-displacement relationship of a structure or the concentration of carbon monoxide in a space. Corequisite: MATH 3313.

CEE 3321 - Chemical Thermodynamics and Kinetics
Credits: 3
Covers fundamental thermodynamics and kinetics with a heavy emphasis on chemical constituents and transformations. Explores the basic laws of thermodynamics as well as thermodynamic properties of materials. Classical concepts of heat transfer, work, and energy flow are discussed in ideal gas, uniform non-ideal, and multicomponent systems. Chemical kinetics and reaction mechanisms are covered with a brief introduction to statistical mechanics. Environmental relevant examples are used throughout the course. Prerequisites: CEE 2321 or equivalent and MATH 1338 or MATH 1340.

CEE 3323 - Water Resources Engineering
Credits: 3
Introduces the hydrologic cycle and associated atmospheric processes through derivation and practical application of the hydrologic budget equation, encompassing precipitation, evaporation, transpiration, groundwater flow, and surface water runoff. Examines unit hydrographs and flood hydrograph routing through application of hydrologic simulation models. Exposes students to probabilistic analysis and extreme value theory for determination of flood and drought hazard. Interpretation and statistical analysis of climatologic, hydrologic, and other environmental data are emphasized. Introduces concepts of professional engineering practice, with emphasis on the need for professional licensing and project management through all phases of a typical project, including conception, planning, preparation of design drawings and specifications for bidding and procurement purposes, the interaction of design and construction professionals, and water resource systems operation. Prerequisite: CEE 2304. Prerequisite or corequisite: CEE 2342/ME 2342.

CEE 3325 - Groundwater Hydrology
Credits: 3
Introduces the hydrologic cycle and the subjects of porosity and permeability. Examines flow theory and its applications, storage properties, the Darcy equation, flow nets, mass conservation, the aquifer flow equation, heterogeneity and anisotropy, regional vertical circulation, unsaturated flow, and recharge. Considers well

hydraulics, stream–aquifer interaction, and distributed– and lumped–parameter numerical models, as well as groundwater quality, mixing cell models, contaminant transport processes, dispersion, decay and adsorption, and pollution sources. Prerequisites: MATH 3313, CEE/ME 2342.

CEE 3327 - Principles of Surface Water Hydrology and Water Quality Modeling
Credits: 3
Examines the theory and applications of the physical processes of the hydrologic cycle. Reviews different types of water bodies (streams, rivers, estuaries, bays, harbors, and lakes). Examines the principal quality problems associated with bacteria, pathogens, viruses, dissolved oxygen and eutrophication, toxic substances, and temperature. Emphasizes theoretical model approaches. Prerequisites: CEE 2321, MATH 3313.

CEE 3331 - Fundamentals of Air Quality I
Credits: 3
Covers the science of air quality and its engineering, public health, and economic aspects. Topics include the sources of air pollutants, transport of pollutants in the environment, and atmospheric chemistry. Reviews the important properties and behavior of airborne particles and gases. Also, the science and national and international policies relating to greenhouse gas emissions, global climate change, and stratospheric ozone depletion. Prerequisites: CHEM 1303, MATH 1337 or equivalent, and PHYS 1303 or equivalent.

CEE 3341 - Introduction to Solid and Hazardous Waste Management
Credits: 3
Examines technology, health, and policy issues associated with solid waste and hazardous materials. Introduces methods of managing solid and hazardous waste and presents regulations where appropriate. Also, the definition and characteristics of hazardous and solid waste materials, health frameworks, and the distribution of contaminants in the environment. Prerequisites: CEE 2304, CEE 2321.

CEE 3350 - Structural Analysis
Credits: 3
Emphasis on the classical methods of analysis of statically determinate and indeterminate structural systems. Also, computation of reactions, shears, moments, and deflections of beams, trusses, and frames. Students use computers as an analytical tool. Prerequisites: ME 2140/CEE 2140, C or better in ME 2340/CEE 2340.

CEE 3351 - Industrial Hygiene and Occupational Health
Credits: 3
Presents the recognition, evaluation, and control of health hazards in the working environment. Examines principles of industrial toxicology, risk assessment and/or management, occupational diseases, and occupational health standards. Also, the application of industrial hygiene principles and practice and the measurement and control of atmospheric contaminants. Introduces the design and evaluation of occupational exposure controls. Lecture and 3 hours of laboratory. Prerequisite or corequisite: CEE 2321.

CEE 3353 - Introduction to Environmental Toxicology
Credits: 3
The physiological and biochemical effects of physical, chemical, and biological processes are linked to factors present in the environment. Describes natural phenomena in terms of the carbon, oxygen, sulfur, phosphorus, and heavy metal cycles. Examines the processes by which anthropogenic chemicals enter the environment and their complex effects on living organisms. Prerequisite: BIOL 1401. Prerequisite or corequisite: CHEM 3371.

CEE 3355 - Environmental Impact Evaluation, Policy, and Regulation
Credits: 3
Reviews methods for evaluating engineering projects on environmental quality. Also, environmental legislation, environmental quality indices, and the strengths and weaknesses of government methodologies to protect the environment. Considers pollution standards, marketable rights, taxes, citizen empowerment, and economic analysis and other policy perspectives. Prerequisite: CEE 2304.

CEE 3385 - Soil Mechanics
Credits: 3
Introduction to the basic principles governing the behavior of soils, foundations, and other geotechnical engineering

works. Central concepts include the index properties and classification of soils, soil permeability and pore water movement, stress distribution in soil and the effective stress concept, bearing capacity, compressibility, consolidation, settlement, shear strength, and soil engineering properties and their measurement. Geotechnical facilities introduced include foundations, retaining walls, tunnels, excavations, earth-fill dams, pavements, stable earth slopes, sanitary landfills, and environmental remediation projects. Prerequisite: CEE 2340/ME 2340. Prerequisite or corequisite: CEE 2342/ME 2342.

CEE 4180 - Civil and Environmental Engineering Design I
Credits: 1
Students complete a term-long environmental or civil engineering project for an industrial or regulatory client, and they examine the nature of design problems, constraints, and analytical tools in an applied setting. Employs an integrated design process that includes problem identification and formulation, project planning, the evaluation of alternatives, internal peer review and design iterations, the preparation of design drawings and specifications for bidding and procurement purposes, the interaction of design and construction professionals, and the implementation of the completed project. Prerequisites: Senior standing and CEE 3302.

CEE 4329 - Design of Water and Wastewater Systems
Credits: 3
Covers physical, chemical, and biological concepts and processes that are specific to public water supplies and municipal wastewater management. Reviews fluid mechanics, and introduces hydraulic modeling for the design of water distribution networks and wastewater collection networks. Also, covers the design and operation of treatment systems for drinking water and for municipal wastewater pollution control. Students visit a public water supply treatment plant and a municipal wastewater treatment plant, and they employ process modeling to complete a design project for each type of plant. Prerequisites: CHEM 1303, CEE 2304, CEE 2342/ME 2342.

CEE 4333 - Fundamentals of Air Quality II
Credits: 3
Covers fundamental and advanced topics in air quality, building upon CEE 3431. Examines atmospheric dispersion of pollutants and uses modern computer models to predict transport. Presents a thorough review of energy technology and energy policy, focusing on the economics and environmental impacts of conventional and alternative methods of energy generation. Discusses the importance of indoor air quality, including the risks from radon and biological aerosols. Presents additional topics of current interest. Each student prepares a term paper related to energy policy and the environment. Prerequisites: CEE 2331/ME 2331 or equivalent, CEE 3431.

CEE 4350 - Design of Steel Structures
Credits: 3
Study of strength, behavior, and design of metal structures; flexural and axial members; bolted and welded connections; and composite beams. Prerequisite: CEE 3350/ME 3350.

CEE 4351 - Design of Concrete Structures
Credits: 3
Study of strength, behavior, and design of reinforced concrete structures; members subjected to flexure; shear and axial loads; and design of one–way slabs. Prerequisite: CEE 3350/ME 3350.

CEE 4380 - Civil and Environmental Engineering Design I
Credits: 3
Students complete a term-long environmental or civil engineering project for an industrial or regulatory client, and they examine the nature of design problems, constraints, and analytical tools in an applied setting. Employs an integrated design process that includes problem identification and formulation, project planning, the evaluation of alternatives, internal peer review and design iterations, the preparation of design drawings and specifications for bidding and procurement purposes, the interaction of design and construction professionals, and the implementation of the completed project. Prerequisites: Senior standing and CEE 3302.

CEE 4381 - Civil and Environmental Engineering Design II
Credits: 3
Students complete a term-long environmental or civil engineering project for an industrial or regulatory client. The client and faculty assess the completed design project. Multidisciplinary design teams stress the need for personal

and written communication skills, leadership, effective group participation, and creative problem-solving. Reinforces concepts of professional engineering practice through student participation in applied design problems. Also, the need for professional licensing, the ethical responsibilities of licensed engineers, and the need for lifelong learning to stay abreast of changing technology and public policy through active participation in professional societies, self-study, and continuing education. Students prepare and present periodic progress reports, reviews, and a final report. Prerequisite: CEE 4180 or CEE 4380.

CEE 5050 - Undergraduate Internship
Credits: 0
This course represents a term of industrial work experience for noncooperative education students. The course designates a student as full time for the term, but it carries no academic credit. Registration for the course is the same as for other SMU courses except that no tuition is charged. The course grade is determined by a written report submitted by the student at the end of the term and graded by the student's adviser.

CEE 5090 - CEE Seminar
Credits: 0
Lectures by invited speakers from industry and academia, including SMU faculty and students, dealing with engineering practice and research topics of current interest in environmental and civil engineering. All students, staff, and faculty are invited.

CEE 5191 - Special Projects
Credits: 1
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

CEE 5192 - Special Projects
Credits: 1
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

CEE 5291 - Special Projects
Credits: 2
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

CEE 5292 - Special Projects
Credits: 2
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

CEE 5301 - Climate-Smart Inclusive Economic Development
Credits: 3
The convergence of the risks of climate change with the unbalanced impacts of globalization and technological advancement, have led to increasing inequality, poverty and imbalance between utilizing and preserving the environment, while keeping the well-being of current and future generations in mind. Nation-states' ability to lead global social and environmental solutions are limited, thus the private sector and markets have a central role in fostering such development. This course will provide an understanding of (i) sustainable inclusive economic development ("SIED") through the lens of global resource utilization, (ii) its four pillars: economic, social, environmental and governance, and (iii) the key stakeholders and their roles and incentives.

CEE 5302 - Leadership in Development Sector
Credits: 3
Examines issues, strategies, and techniques related to leadership and management of third-sector organizations. Designed to provide future global development professionals with an overview of a range of concerns and practices, while honing their analytic skills. In addition to lectures and discussions, this course employs a heavy applied field component through meetings and collaborations with governmental ministries and NGOs. Additionally, case

analyses to contrast Rwanda with other examples will be a key element of the course. Prerequisite: Instructor approval.

CEE 5303 - Citizen Engineering with Community-Based Design Research
Credits: 3
Applying principles of community-based design research to solving complex engineering problems in a socially and environmentally responsible manner. Experiential and project-based learning with community stakeholders to develop systems awareness (systems thinking and sensing) and data- and model-based reasoning. Ethical and policy perspectives on the impacts of societal challenges that disproportionately affect vulnerable populations (e.g., climate change, increasing natural hazards, shrinking resources, loss of biodiversity, aging infrastructure). Prerequisite: Junior standing in the Lyle School or instructor permission.

CEE 5304 - Civil and Environmental Informatics
Credits: 3
Data-driven analyses and decision making within the context of infrastructure and environmental challenges. Identifying and predicting trends, finding patterns, identifying stakeholder needs and recommendations, and engaging stakeholders and decision makers through the tools of machine learning, visualization, workflows and data/model services, and Web applications. Project-based and experiential learning that contributes to ongoing projects on urban grand challenges. Prerequisites: CEE 3310, CS 1340, CS 1341, or CS 1342 and STAT 4340 or STAT 4341 (or equivalents).

CEE 5306 - Sustainable Urban Development and Design
Credits: 3
The classroom is the research base for an actual sustainable development and design project. The work builds on an immersion into the primary historical texts of sustainable urban development with readings covering the range of issues central to sustainable development: ecological, economic, and social. Practical workshop lab exercises will introduce a number of the tools developers of sustainable projects need to draw upon, from research and data analysis to GIS mapping and financial brackets, which will be tested in the project-based portion of the course.

CEE 5307 - Infrastructure Design for the Developing World
Credits: 3
Engineering design in the developed world takes for granted the availability of several key resources, namely construction material, water, and electricity. This class examines engineering design in the absence of these resources. The course focuses on the development of shelter and sanitation in an efficient manner. Understanding the total energy cycle of a structure is emphasized, along with multiple alternative energy solutions. Additional material on topics such as developing solutions for extreme low cost, high population densities, and ecological sustainability is covered. Specifically, water and soil environmental contamination and sustainable management is emphasized. The course looks at urban and rural settings. Further, the course integrates with other coursework in development leadership on certain topics such as natural resource management. This course involves a heavy lab component. Students work on interdisciplinary teams to assess and redesign projects related to, for example, structures, energy systems, and water systems. Prerequisite: Instructor Approval.

CEE 5308 - Smart Infrastructure and Environment
Credits: 3
Provides fundamental knowledge and application of analysis and design techniques for collection, processing, and analysis of data streams from infrastructure components and systems. Topics include design of data streams, sensor design and implementation, signal processing, and analysis of data in the context of infrastructure monitoring. Prerequisite: CEE 3310 or equivalent.

CEE 5309 - Global Resource Assessment and Management
Credits: 3
Provides an understanding of how the management of global resources has an inter-related impact on the resilience of our environment and civilization, and explores ways to assess resource use in global development projects. Students examine global energy distribution and production, and its impact on air quality, goods production and transit, food availability, ocean use and impact, climate change, and global housing. Alongside the lectures, a series of practical workshop lab exercises introduce hands-on tools for global resource management, including food security indicators, environmental justice, risk management, and metrics for sustainable policy assessment.

CEE 5311 - Environmental and Hazardous Waste Laws
Credits: 3
Federal environmental laws, with emphasis on laws dealing with hazardous substances, such as the Comprehensive Environmental Response, Compensation, and Liability Act and the Resource Conservation and Recovery Act. Also, regulations and the regulatory framework, definitions and substantive requirements, roles of the states and the federal Environmental Protection Agency, compliance and enforcement, and case studies.

CEE 5312 - Risk Assessment and Health Effects
Credits: 3
Introduction to toxicology as it relates to environmental and health effects of hazardous materials. Covers risk management factors, including the legal aspects. Also, toxicology methodology, human health and ecological risk assessment, risk communication, emergency response, and computer databases.

CEE 5313 - Environmental Chemistry
Credits: 3
Covers chemical and biochemical processes, chemical thermodynamics, acid-base equilibria, precipitation and dissolution, oxidation-reduction processes, environmental transformations of organic materials, introductory taxonomy, microbial growth and kinetics, energy transfer, and microbial ecosystems. Also, controlling fate and transport of hazardous materials, with emphasis on chemical equilibria.

CEE 5314 - Environmental Regulations and Compliance
Credits: 3
Provides practical knowledge of federal and state environmental permitting processes and procedures. Reviews regulatory requirements, with emphasis on the 40 CFR regulations for water, air, and solid hazardous waste. Explores air, water, stormwater, and waste permits, as well as permits-by-rule and the consequences of noncompliance with regulations by presenting enforcement options available to government agencies.

CEE 5315 - Integrated Waste Management
Credits: 3
Comprehensive introduction to the fundamentals of the complex interdisciplinary field of hazardous waste management. Covers current management practices, treatment and disposal methods, and site remediation. Includes detailed case studies and design examples to evaluate the effectiveness of different treatment and containment technologies in addressing today's hazardous waste situations.

CEE 5316 - Engineering Microbiology
Credits: 3
Examines aspects of microbiology that are particularly valuable to the practice of environmental engineering. Specific areas of focus include enzyme and growth kinetics, cell structure and physiology, the process of biotransformation, microbial and/or environmental interactions, and biogeochemical cycles. Elements of molecular biology and biotechnology are also presented as appropriate. Students gain a basic understanding and appreciation of microbial processes that are applicable in the field of environmental engineering. Prerequisites: CHEM 1303 and CEE 2321, or equivalent.

CEE 5317 - Environmental Organic Chemistry
Credits: 3
Examines the fundamental processes that govern the transformation of organic chemicals in natural and engineering systems. Includes an overview of organic chemistry, with a focus on the basic properties of organic compounds, such as nomenclature and structures. Covers the physical transformations of organic compounds to provide an understanding of processes (e.g., sorption and volatilization) that control the distribution of organic chemicals between different phases such as air, water, and soil. Also, organic chemical reactions in the environment, with an emphasis on environmentally mediated reactions (e.g., hydrolysis and photolysis) that control the breakdown of organic chemicals.

CEE 5318 - Bioremediation of Inorganic Contaminants
Credits: 3
Focuses on bioremediation techniques and applications for removing inorganic contaminants (nitrogen, sulfur and phosphorus compounds, iron, heavy metals, metalloids and radionuclides) through the metabolic activities of

microorganisms. Explores fundamental chemical and biological processes as well as engineering aspects. Prerequisites: CEE 2321 and instructor approval.

CEE 5319 - Soil Chemistry and Mineralogy
Credits: 3
Examines soil solution chemistry and reactivity. Covers distribution and significance of common soil minerals, weathering, and general solid phase reactivity. Prerequisite: CEE 2321 or permission of instructor.

CEE 5320 - Biodegradation of Hazardous Organic Pollutants
Credits: 3
Students learn and integrate the basic principles of biochemistry required for understanding the biodegradation of hazardous and toxic organic compounds. Students become familiar with current biological remediation techniques and molecular microbiology and solve problems often encountered in application of bioremediation. Prerequisites: CEE 2321, prior course experience with biochemistry, and instructor approval.

CEE 5321 - Physical and Chemical Processes and Treatment
Credits: 3
Introduces waste minimization techniques and objectives, and thoroughly reviews chemical equilibrium and chemical reaction kinetics. Design and analysis equations and procedures are rigorously derived for chemical reactors and physical unit operations. The treatment objectives examined include 1) solids-liquid separation accomplished by coagulation and flocculation, sedimentation, filtration, flotation, and solids handling processes; 2) immiscible liquid separation brought about by emulsion-breaking chemicals and gravity and flotation oil-water separators; 3) phase and species transformations through pH neutralization, chemical precipitation, chemical oxidation and/or reduction, air stripping, and solidification and/or stabilization; and 4) solute separation and concentration achieved with activated carbon absorption, synthetic ion exchange resins, and membrane separation techniques. Prerequisites: CHEM 1303, CEE 2304, CEE 2342, and MATH 3313.

CEE 5322 - Biological Processes and Treatment
Credits: 3
Topics include an overview of microbiology and microbial metabolism, the kinetics of biological growth, and aerobic suspended growth processes, including the various modifications of the activated sludge process, aerated lagoons, and sequencing batch reactors. Also, aerobic attached growth processes such as trickling filters, biofilter towers, and rotating biological contactors. Covers anaerobic processes, including sludge digestion and liquid waste treatment with the anaerobic contact process and anaerobic filters. Examines biosolids handling and disposal, composting, land treatment, in situ biotreatment, and biotreatment of contaminated soils.

CEE 5323 - Project Management
Credits: 3
Covers the role of the project officer, and the systems and techniques for planning, scheduling, monitoring, reporting, and completing environmental projects. Also, total quality management, project team management and development of winning proposals, and contract management and logistics. Includes case study application of project management to all environmental media and programs, community relations, risk communication, crisis management, consensus building, media, and public policy.

CEE 5324 - Geographical Information Systems and Mapping
Credits: 3
Introduces modern GIS software and tools, including map design, geodatabases, geospatial and attribute data, geocoding, and simple spatial analysis. Students use research-based projects to explore GIS as a tool for innovative spatial thinking and as a catalyst for sustainable strategies.

CEE 5325 - Disaster Management
Credits: 3
Introduces basic concepts in disaster management. Drawing on a range of sources, from the textbook to the U.S. National Response Plan to research papers, the course covers the fundamentals of preparedness, mitigation, response, and recovery. An all-hazards approach is taken, providing analysis of natural, technological, and man-made disasters. Also introduces key methods in the field, including simulation modeling, consequence analysis tools, design criteria, statistical and case study methods (lessons learned), and risk analysis.

CEE 5326 - Sustainable Transportation
Credits: 3
Covers planning and operations management of sustainable transportation systems with a focus on energy efficiency. Provides an integrated overview of main concepts and issues related to developing sustainable transportation systems for urban areas, freight transportation, and aviation. Also, advanced topics related to vehicle technologies, alternative energy, and smart cities. Presents findings from national and international case studies. Prerequisite: Senior standing or permission of instructor.

CEE 5327 - Optimization and Reliability for Infrastructure and Environmental Systems
Credits: 3
Introduces the concepts of engineering systems optimization, reliability, and risk assessment and applies them to civil and environmental engineering systems. Topics include an introduction to engineering systems definition, classical methods of optimization, linear programming, integer programming, dynamic programming, nonlinear optimization, and reliability and risk concepts in engineering planning and design. Engineering applications include transportation networks, fleet assignment, supply chain management, environmental engineering systems, fluid transport and water reservoir operation, and structural engineering systems. Advanced topics include an introduction to chance-constrained optimization and basic decomposition approaches

CEE 5328 - Introduction to Sustainability
Credits: 3
Introduces basic concepts in sustainability. Students draw on a range of sources, including selected books and readings, to explore the idea of total connectedness of resource use globally, with particular emphasis on the situation in North Texas. Addresses the issues of air quality and energy supply, sustainable construction, water use, transit and other related areas of resource use, and waste generation. Guest lecturers provide a series of multiple viewpoints and areas of specific expertise. Prerequisite: Graduate standing or permission of instructor.

CEE 5329 - Methods and Technology for Sustainability
Credits: 3
Covers technologies and methods used in sustainable design and analysis. Topics include the scientific understanding of alternative energy systems, water reuse and supply, and state-of-the-art materials created for sustainability. Also, methods for assessing sustainability, including life cycle assessment and the development of sustainable indicators. Prerequisite: Graduate standing or permission of instructor.

CEE 5330 - Design for Sustainable Buildings and Infrastructure
Credits: 3
Covers basic methods of sustainable building and environmental design to assure minimal and efficient resource and energy use. Students undertake a design project and work to integrate green strategies into their proposal. Covers technical methods for assessing predictive resource use, including energy modeling, water balance calculations, daylight modeling, and energy generation estimations. Emphasis is placed on passive, non-mechanical building systems. Defining occupant comfort as a balance of multiple factors is addressed, as well as methods for effective use of water management and land use. Sustainable infrastructure will be addressed, including integrated storm water management, water quality and runoff management, and passive water systems. The USGBC's LEED system will be specifically addressed.

CEE 5331 - Air Pollution Management and Engineering
Credits: 3
Covers the science, engineering, public health, and economic aspects of air quality. Students develop an in–depth understanding and broad knowledge of the sources and properties of air pollutants, air quality management, fate and transport of pollutants in the environment, regulations of air quality, and the operation and design of air pollution control systems. Reviews the status of science, policy, and regulations on several selected topics such as urban smog, regional haze, greenhouse gas and global climate change, stratospheric ozone depletion, and mercury emissions and control. Prerequisites: CEE 2321 or equivalent, MATH 1337 or equivalent, and PHYS 1303 or equivalent.

CEE 5332 - Groundwater Hydrology and Contamination
Credits: 3
Groundwater hydrology, aquifer and well hydraulics, flow equations and models, implications for landfill design,

sources and nature of groundwater contaminants, monitoring and analysis, contaminant fate and transport, transport model for hazardous substances, groundwater pollution control measures, containment and treatment, and groundwater quality management. Prerequisite: MATH 3313.

CEE 5334 - Fate and Transport of Contaminants
Credits: 3
Covers the development and application of fate and transport models for waterborne contaminants, with a focus on the material balance principle. Includes mass transport and transformation processes, lake and reservoir modeling, stream modeling, general flow case, groundwater models, multiphase and integrated modeling approaches, and case studies. Also, water-sediment, water-soil, and water-air interfaces.

CEE 5335 - Aerosol Mechanics
Credits: 3
Fundamental and advanced principles of airborne particles, including their physical properties; aerodynamic behavior; and collection, measurement, and analysis. Emphasizes the origins and properties of atmospheric aerosols and the design of air pollution control equipment. Prerequisite: CEE 3431, CEE 2342/ME 2342, or equivalent.

CEE 5336 - Urban Hydrology and Hydraulics
Credits: 3
Urban hydrology and watershed response to rainfall events; hydrologic systems; design of stormwater conveyance systems, storage facilities, inlets, and culverts; and use of engineering tools for assessing stormwater best management practices (BMPs) and green infrastructure implementation. Prerequisites: CEE 2342 and CEE 3323 (or equivalents) or instructor approval.

CEE 5337 - Field and Laboratory Methods 1
Credits: 3
The first of two courses comprising an integrated one year experience in fieldwork, laboratory methods, and data analysis relevant to environmental engineering. Addresses air, water, and soil sample collection and analysis. Topics include data collection and analyses relevant to biological, chemical, and physical processes and treatment; microbiology; industrial hygiene; statistical tools and analysis; and geographic information systems. Students design and conduct experiments, including: the use of field kits and state-of-the-art analytical laboratory equipment, the selection of appropriate sampling plans, and the evaluation of the reliability and significance of results. Covers instrumental analysis for data acquisition and statistical methods for air, water, and soil quality assessment. 8 hours per week, includes field trips. Prerequisite: CEE 2304.

CEE 5338 - Field and Laboratory Methods 2
Credits: 3
The second of two courses comprising an integrated one year experience in fieldwork, laboratory methods, and data analysis relevant to environmental engineering. Continues air, water, and soil sample collection and analysis. Students design and conduct additional experiments for more sites (e.g, landfill, ambient air monitoring station, wastewater treatment plant, water treatment plant, industrial facilities, etc.) and use advanced instruments. Students further explore instrumental and statistical methods used for characterization of water, air, and soil quality. Eight hours per week, includes field trips. Prerequisite or corequisite: CEE 5337.

CEE 5340 - Introduction to Solid Mechanics
Credits: 3
Three–dimensional stress and strain, failure theories, introduction to two–dimensional elasticity, torsion of prismatic members, beams on elastic foundation, introduction to plates and shells, and energy methods. Prerequisites: CEE 2340/ME 2340, MATH 3313.

CEE 5350 - Introduction to Environmental Management Systems
Credits: 3
An in-depth introduction to environmental management systems. Includes systems such as EMAS, Responsible Care, OHSAS 18000, ISO 14000, and the Texas EMS program. Takes a step-by-step look at the ISO 14002

standard, from the policy statement to the management review, and allows students to fully understand the plan, do, check, act approach of the system. Also introduces management system auditing, the requirements of a system auditor, and the certification process.

CEE 5351 - Introduction to Environmental Toxicology
Credits: 3
Presents toxicology as it relates to environmental and health effects of hazardous materials. Examines toxicological methodologies, pharmacokinetics, mechanisms of action to toxicants, origin response to toxic substances, and relevant aspects of the occupational and regulatory environment. Topics include toxicology of metals, radiation, industrial solvents and vapors, pesticides, teratogens, mutagens, and carcinogens. Also, risk communication and risk assessment as they relate to toxic substance exposure.

CEE 5352 - Management of Radioactive Hazards
Credits: 3
Presents principles of radioactive material production, uses, and hazards, with emphasis on their safe control and management. Examines topics in health physics and radiation protection related to the commercial nuclear industry, including uranium fuel production, light water reactor technologies, and industrial and medical uses of radioactive byproduct materials. Develops risk assessment methods and hazard management connected to the fuel cycles. Studies the regulation of radioactive materials, with a focus on the licensing of regulated industries, radioactive material transportation, radioactive waste management and disposal, radiological emergency preparedness, and decommissioning. Prerequisite: CEE 5313.

CEE 5353 - Environmental Epidemiology
Credits: 3
Introduction to the science of epidemiology. Covers the design and conduct of studies examining the health effects of environmental exposures, and the strengths and limitations of research strategies and interpretation of study results. Includes air and water pollution, lead, and biological marker outcomes.

CEE 5354 - Environmental Engineering Principles and Processes
Credits: 3
Introduces waste minimization and pollution prevention techniques and objectives. Includes a comprehensive study of biological, chemical, and physical principles and treatment strategies for controlling pollutant emissions, with equal emphasis on underlying theory and practical engineering application of both common and innovative water and wastewater treatment processes. Includes rigorous derivation of design equations, procedures, and process models for chemical and/or biological reactors and physical unit operations. Places emphasis on engineering analysis and application of process modeling techniques for design of unit processes to achieve specific treatment objectives. Prerequisites: CHEM 1303, CEE 2304, CEE 2342, and MATH 3313.

CEE 5356 - Civil Infrastructure Systems
Credits: 3
Covers different civil infrastructure systems serving urban and rural communities. Introduces main concepts related to infrastructure project conceptualization and lifecycle analysis, demand and supply interactions, planning, and operations management. Topics such as infrastructure interdependences, resilience, sustainability, security, and cyber-physical systems are discussed. Prerequisites: Senior/graduate standing or permission of instructor.

CEE 5357 - Civil Infrastructure Operations Management
Credits: 3
Introduces students to challenges related to managing complex civil infrastructure systems and common approaches used to address these challenges. Provides understanding of operation under uncertainty and the need to develop proactive and robust management strategies to attain desired performance measures for the infrastructure systems. The use of decision support systems for managing different civil infrastructure systems is presented. Prerequisite: Senior/graduate standing or permission of instructor.

CEE 5358 - Demand Forecasting for Infrastructure Systems
Credits: 3
Introduces students to the problem of long-term demand forecasting for civil infrastructure systems. Covers common techniques used to develop models for infrastructure demand forecasting including growth factor methods,

regression and time series analysis, learning-based models, and utility-based models. Advanced topics related to the use of the activity-based framework for demand forecasting are also covered. Prerequisite: Senior/graduate standing or permission of instructor.

CEE 5361 - Matrix Structural Analysis and Introduction to Finite Element Methods
Credits: 3
A systematic approach to the formulation of force and displacement method of analysis, the representation of structures as assemblages of elements, and computer solution of structural systems. Prerequisites: CEE 3350/ME 3350, CEE 3310 or CEE 5362, or permission of instructor.

CEE 5362 - Engineering Analysis with Numerical Methods
Credits: 3
Applications of numerical and approximate methods in solving a variety of engineering problems. Examples include equilibrium, buckling, vibration, fluid mechanics, thermal science, and other engineering applications. Credit is not allowed for both CEE 3310/ME 3310 and CEE 5362/ME 5362. Prerequisite: Permission of instructor.

CEE 5363 - Architectural and Structural Engineering
Credits: 3
Introduces the basic principles of structural analysis and mechanics of deformable bodies. Presents structural systems and principles, with an emphasis on architectural design. Provides students with a conceptual introduction to structures, emphasizing the integration of structural and architectural design. Discusses case studies of buildings. Prerequisites: CEE 2310/ME 2310, CEE 2320.

CEE 5364 - Introduction to Structural Dynamics
Credits: 3
Covers the dynamic responses of structures and the behavior of structural components to dynamic loads and foundation excitations. Also, single– and multidegree–of–freedom systems response and applications to analysis of framed structures. Introduces systems with distributed mass and flexibility. Prerequisites: MATH 3313 and CEE 3350/ME 3350 or CEE 5361/ME 5361.

CEE 5365 - Introduction to Construction Management
Credits: 3
Examines construction practice techniques, current technological tools, and building codes and regulations. Includes cost estimating, bidding, contracts and contract bonds, risk and umbrella excess insurance, labor law, and labor relations. Addresses business methods with respect to managing project time and cost, including the typical forms used in construction.

CEE 5366 - Introduction to Facilities Engineering Systems
Credits: 3
Examines the interrelationships of fire protection, HVAC, electrical, plumbing, lighting, telecommunications, and energy management systems for buildings. Uses a life cycle approach to examine the cost durability, maintainability, operability, and safety of each system. Also, facility operations, facility maintenance and testing, and assessments.

CEE 5367 - Telecommunications in Facility Planning
Credits: 3
Presents a thorough description of telecommunications technology, and provides the student with a working knowledge of its fundamental concepts for voice and data. Topics include digital communications, standards and protocols, Ethernets, local area networks, fiber optics, and voice technologies.

CEE 5368 - Contracts in Design and Construction
Credits: 3
Covers the role of contracts in defining the roles and obligations of the parties involved in the design, construction, and construction management of a project. Students learn the basic structure and requirements of a contract and how laws and regulations affect contracts and relationships between parties to the contract. The impact of laws and regulations on the selection process for project participants, contracting provisions, and execution of construction is

also considered. Systems thinking is applied to determine the best allocation of risk factors that are addressed in contracts. Prerequisites: Adviser approval and CEE 5365 or equivalent.

CEE 5369 - Electrical, Mechanical, and Piping Systems for Buildings
Credits: 3
Examines mechanical and electrical systems for buildings, with emphasis on practical aspects of the subjects. Presents space planning and architectural considerations, including cost and environmental impact of the mechanical and electrical systems. Prerequisites: Undergraduate introduction to electrical circuits, classical mechanics, and fluid dynamics or instructor approval.

CEE 5370 - Quality Management in Construction
Credits: 3
Covers quality management as applied to construction projects. Students learn the principles of quality management and how these principles apply to the construction manager's professional services and construction processes. Uses data analytics to identify trends in quality to enhance testing efforts and structured problem-solving techniques to address the root causes of quality issues. Prerequisite: Adviser approval and CEE 5365 or equivalent.

CEE 5371 - Facility Financial and Asset Management
Credits: 3
Examines financial analysis and reporting, concepts and methods of accounting, budgeting, and evaluation of projects. Presents the role of facility managers in affecting corporate earnings and valuations. Includes the management of the facility over its entire life cycle, extending from planning and budgeting to the management of its assets and construction projects.

CEE 5373 - Prestressed Concrete
Credits: 3
Theory and application of prestressed concrete members' time-dependent deflections. Also, continuous prestressed beams. Prerequisite: CEE 4350/ME 4350.

CEE 5375 - Advanced Concrete Design
Credits: 3
Behavior, analysis, and design of concrete slender columns, two-way slab systems, and deep beams; yield line analysis for slabs; and design and behavior of shear walls, retaining walls, and foundation systems. Prerequisite: CEE 4350/ME 4350.

CEE 5376 - Intelligent Transportation Systems
Credits: 3
Covers different topics related to intelligent transportation systems (ITS), including technological and institutional aspects, regional ITS architectures, and cost benefit analysis of ITS projects. Advanced traveler information systems, advanced public transportation systems, and advanced traffic network management systems are discussed. The application of ITS for safety, security, environmental quality, and sustainable mobility are also presented. Prerequisite: Senior/graduate standing or permission of instructor.

CEE 5377 - Advanced Steel Design
Credits: 3
The behavior and design of steel structures, including general methods of plastic analysis, plastic moment distribution, steel frames, unbraced and braced frames, and composite construction. Prerequisite: CEE 4350/ME 4350.

CEE 5378 - Transportation Planning and Traffic Engineering
Credits: 3
Focuses on the analysis and modeling of urban transportation systems. Includes an overview of main definitions and terminologies involved in the planning and modeling of urban transportation systems. Introduces the concept of urban transportation planning systems along with an overview of various models used in travel demand forecasting. Describes the principles of traffic operations, analysis, and control. Prerequisite: Knowledge of the principles of probability and statistics.

CEE 5379 - Highways Design and Safety
Credits: 3
Provides an overview of the principals of highways design and traffic safety. Topics include highways functional classification, design control and criteria, driver performance, sight distance, horizontal and vertical alignments, cross section elements, design of freeways, intersections and interchanges, traffic safety, and environmental impact assessment.

CEE 5380 - Management of Industrial and Mission-Critical Facilities
Credits: 3
Efficient industrial centers require balanced consideration with respect to facility design and function. Mission-critical component management and information technology systems are designed for exceptionally reliable performance and efficient operation. This course emphasizes the component systems that are designed to maintain a high level of function. Covers electrical and mechanical reliability, efficiency, readiness, robustness, and flexibility, and the management of the information technology systems. Explores strategies designed to eliminate costly downtimes, with emphasis on standby generators; automatic transfer switches; uninterruptable power supplies; fuel, fire, and battery systems; energy security; and environmental and cooling technologies. Presents the implementation of sustainable technology, green certifications, and alternative energy strategies that are compatible with the mission-critical requirements of the facility. Includes operational approaches to reduce energy requirements for power and cooling, mandated safety standards, and environmental codes.

CEE 5381 - Site Selection for Industrial and Mission-Critical Facilities
Credits: 3
Efficient industrial centers and facilities with mission-critical subsystems such as datacenters require balanced considerations with respect to facility design and site location. Site location plays an integral role in creating successful projects that especially support high reliability and promote sustainable design. While the important factors may vary from site to site, in any given instance a single factor can undermine the success of an otherwise excellent project. Ready availability and proper site selection that minimizes risk of disruption are particularly important factors for successful operation. Covers siting considerations, including power needs, electrical mix, weather patterns, building codes, proximity to the workforce and transportation, and other topics that bear on reliable operation. Emphasizes strategies of site selection to adequately safeguard hardware and mission-critical data.

CEE 5383 - Heating, Ventilating, and Air Conditioning
Credits: 3
Examines the science and practice of controlling environmental conditions through the use of thermal processes and systems. Specific applications include refrigeration, psychometrics, solar radiation, heating and cooling loads in buildings, and design of duct and piping systems. Emphasizes theory and analysis. Prerequisites: CEE 2331/ME 2331, CEE 2342/ME 2342, ME 3332.

CEE 5384 - Energy Management for Buildings
Credits: 3
Examines procedures to select energy savings options for buildings, with emphasis on the practical aspects of the subject. Considers space planning, architectural considerations, cost, and environmental impact of the mechanical and electrical systems along with optimizing the life cycle cost of the proposed alternative. Software for life cycle cost and energy analysis is used to calculate energy consumption and compare energy features of proposed, audit-determined feasible changes to a building.

CEE 5385 - Advanced Soil Mechanics
Credits: 3
Physicochemical properties of soil and soil stabilization, advanced theories of soil deformation and failure as applied to slope stability and lateral loads, and soil and water interaction in earthen dams. Prerequisite: CEE 3385.

CEE 5386 - Foundation Engineering
Credits: 3
Covers the application of soil mechanics principles to the design and construction of shallow and deep foundations. Topics include subsurface investigation procedures to obtain soil parameters for design and construction of structure

foundations, bearing capacity and settlement analyses, construction procedures, and soil improvement techniques. Prerequisite: CEE 3385.

CEE 5387 - Geotechnical Earthquake Engineering
Credits: 3
Provides fundamental knowledge and practical application of soil dynamics and geotechnical earthquake engineering. Includes an overview of seismic hazards, the fundamentals of vibration, wave propagation in an elastic medium, the properties of dynamically loaded soils, earthquake-induced ground motion, ground response analysis, lateral earth pressure on retaining walls, the liquefaction of soils, and seismic stability of earth embankments. Prerequisite: CEE 5364 or approval of instructor.

CEE 5388 - Groundwater and Seepage
Credits: 3
Examines fundamental principles of flow through porous media and related engineering problems. Topics include the saturated seepage theory and flow nets, the unsaturated flow theory, suction-saturation and saturation-hydraulic conductivity relationships, the principle of effective stress, laboratory and field testing methods for determining material characteristics, and numerical models for flow-related engineering problems. Prerequisite: CEE 3385, and CEE 3310 or CEE 5362 or equivalent.

CEE 5391 - Special Projects
Credits: 3
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair. Prerequisite: Junior or senior standing required.

CEE 5392 - Special Projects
Credits: 3
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair. Prerequisite: Junior or senior standing required.

CEE 5418 - Engineering Microbiology
Credits: 4
Examines aspects of microbiology that are particularly valuable to the practice of environmental engineering. Specific areas of focus include enzyme and growth kinetics, cell structure and physiology, process of biotransformation, microbial and/or environmental interactions, and biogeochemical cycles. Elements of molecular biology and biotechnology are also presented as appropriate. Students gain a basic understanding and appreciation of microbial processes that are applicable in the field of environmental engineering. Prerequisites: CHEM 1303 and CEE 2321, or equivalent.

CEE 5491 - Special Projects
Credits: 4
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

CEE 5492 - Special Projects
Credits: 4
Intensive study of a particular subject or design project, not available in regular course offerings, under the supervision of a faculty member approved by the department chair.

Computer Science

Professor Frederick R. Chang**, Chair**

Professors: Frederick R. Chang**,** Ira Greenberg, Jeff Tian, Jia Zhang
Associate Professors: LiGuo Huang, Eric C. Larson, David Lin
Assistant Professor: Corey Clark
Senior Lecturer: Frank P. Coyle
Lecturer: Maya El Dayeh
Clinical Professors: Ginger Alford, Mark E. Fontenot, Michael Hahsler, Theodore W. Manikas
Adjunct Faculty: Hakki C. Cankaya, Isaac Chow, Vidroha Debroy, Judy Etchison, Aaron L. Estes, Mark Hoffman, Kenneth R. Howard, Toby Huskinson, Bhanu Kapoor, John Lawrimore, Karl C. Lewis, D. Kall Loper, Matthew R. McBride, Lee D. McFearin, Freeman Moore, Robert Oshana, Padmaraj M.V. Nair, Klyne Smith

General Information

The Department of Computer Science (CS) at SMU offers academic programs in computer science. Faculty specializations include computer architecture, data mining, knowledge engineering, software engineering, design and analysis of algorithms, parallel processing, database management, very large-scale integration computer-aided design methods, bioinformatics, computer networks, data and network security, mobile computing, theory of computation, and computer arithmetic. The educational objectives of the undergraduate programs in the CS Department are to produce graduates who become productive professionals in an information technology discipline, pursue graduate or professional degrees, are successful entrepreneurs and managers, have a broad knowledge and wide range of interests, are valuable members of their general community and take a leadership role in their chosen field. As such, the programs are designed to ensure that graduates have the following abilities:

For graduates with degrees in computer science:

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
3. Communicate effectively in a variety of professional contexts.
4. Recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Apply computer science theory and software development fundamentals to produce computing-based solutions.

The CS Department is engaged in an ongoing assessment process that evaluates the success in meeting these outcomes and enhances the development of the program.

Degrees

The CS Department offers undergraduate degrees as follows:

Bachelor of Science With a Major in Computer Science
Bachelor of Arts With a Major in Computer Science

The undergraduate computer science program that awards the degree Bachelor of Science is accredited by the Computing Accreditation Commission of ABET, https://www.abet.org. The undergraduate computer science program that awards the degree Bachelor of Arts is not accredited by a Commission of ABET.

Combined Degree Program

The Lyle School of Engineering offers a combined degree with the Meadows School of the Arts that leads to the degrees of B.A. in music and B.A. in computer science. Students should contact the department for additional details. Other combined majors can be arranged in consultation with an adviser.

Accelerated Pathways Master's Degree Program

The Accelerated Pathways program allows students to complete both B.S. and M.S. degrees in five years. In the CS Department, students may participate in the Accelerated Pathways program in the computer science area. Up to nine total credit hours of graduate courses may be applied toward fulfilling the student's undergraduate program requirements in the final year of the baccalaureate degree. For additional information, students should contact the undergraduate program director.

Teaching Certification

Computer science majors interested in earning a teaching certificate should contact the Simmons School of Education for information on additional course and student teaching requirements.

Computer Facilities

Students in the CS Department have access to a wide range of facilities and equipment. The department's computing environment has evolved into an Ethernet-based network of personal computers and servers. General-use UNIX servers that run OSF1 and Linux are available. A wireless network is also available throughout the CS facilities. Windows-based PC labs are used during the first two years of coursework.

Curriculum in Computer Science

Computers play an ever-increasing role in society. Their use permeates all other academic disciplines and industrial arenas. Computer science is the study of the concepts and theory surrounding computer design and software construction. The SMU undergraduate program in computer science is designed to give students a solid understanding of these concepts, providing them with the technical knowledge needed to pursue either an advanced degree or a challenging career in the computer industry. The diversity of the Lyle School of Engineering computer environment exposes undergraduate computer science students to many different hardware and software systems.

To study and use computers, one must communicate with them through a variety of software interfaces, including programming languages. At SMU, the student will study several high-level languages – such as C++ and Java – that simplify the use of computers. In addition, students are exposed to a variety of computer-aided software engineering tools. Assembly languages and operating systems (such as Linux/UNIX) for microcomputers, mainframes and supercomputers are studied to provide an understanding of the architecture and organization of a digital computer. Mathematical topics such as discrete mathematics, graph theory, and Boolean and linear algebra are included in required undergraduate classes so that students may better understand the internal structure of the computer and the effective utilization of its languages.

Knowledge of the computer's internal structure is important to understanding its capabilities. Thus, computer science students take courses in assembly language, computer logic and computer organization. Courses in systems programming and operating systems extend this structural study into the "software" of the computer. A required sequence of software engineering courses prepares students for advanced systems and software applications.

Many of the computer science core courses (CS 2341, CS 3345, CS 3353, CS 4345, CS 4351 and CS 4352) contain major project-oriented components to prepare students for applying their theoretical knowledge in teams.

The free electives in the B.A. in computer science program can be used to individually tailor a student's study plan. For example, students who want a program even more intensive than the computer science major could satisfy their free electives with more computer science courses. Students interested in a broader education could satisfy these electives with courses offered by any department in the University.

The B.S. degree allows students to major in any of five concentration tracks or to pursue a general program where they can choose nine hours of computer science electives. The research track allows students to participate in an undergraduate research project of their choice. Like graduate students, undergraduate students majoring in research are required to perform independent research in an area of their choice (with a tenure-track faculty member as an adviser), document the research results and present the results of the research in a presentation open to the entire University community. The security track facilitates a more in-depth study of software security issues. The data-intensive computing track introduces concepts of data storage and analysis necessary for many modern applications.

The software engineering track focuses on software design and testing. The game development track is provided in collaboration with SMU Guildhall.

Computer Science, B.A.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Statistics (15 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra
- CS 2353 - Discrete Computational Structures

- STAT 2331 - Introduction to Statistical Methods
  or
- STAT 4340 - Statistical Methods for Engineers and Applied Scientists

Computer Science Core (17 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2240 - Assembly Language Programming and Machine Organization
- CS 2341 - Data Structures
- CS 3353 - Fundamentals of Algorithms
- CS 5343 - Operating Systems and Systems Software

Tracks (9 Credit Hours)

Artificial Intelligence and Machine Learning

- CS 5320 - Artificial Intelligence
- CS 5324 - Machine Learning in Python
- 3 credit hours of track electives approved by adviser

Cybersecurity

- CS 5339 - Computer System Security
- CS 5349 - Data and Network Security
- 3 credit hours of track electives approved by adviser

Data Engineering

- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- 3 credit hours of track electives approved by adviser

General

- Three 3-hour, 4000-level or above CS courses approved by adviser

Research

- CS 4397 - Research Experience for Undergraduates

- CS 5350 - Algorithm Engineering
- 3 credit hours of track electives approved by adviser

Software Engineering

- Select two of the following three courses:
  - CS 5314 - Software Testing and Quality Assurance
  - CS 5319 - Software Architecture and Design
  - CS 5340 - Service-Oriented Computing
- 3 credit hours of trac electives approved by adviser

Technical Electives (9 Credit Hours)

9 credit hours of CS courses at the 3000 level or above as approved by the adviser. The advisor may approve other sufficiently technical courses from other departments to satisfy the Technical elective requirements. Technical electives cannot be satisfied by courses that are part of the student's chosen track.

Engineering Leadership (9 Credit Hours)

Choose 9 credit hours from the following:

- CS 3377 - Ethical Issues in Computing
- CS 4360 - Technical Entrepreneurship
- CS 5317 - Leadership for Architecting Software Systems
- CEE 2302 - Authentic Leadership
- CEE 3302 - Engineering Communications
- CEE 5302 - Leadership in Development Sector
- CEE 5303 - Citizen Engineering with Community-Based Design Research
- EMIS 2375 - Cultural and Ethical Implications of Technology
- EMIS 3308 - Engineering Management
  Students who are also enrolled in a major or minor program in the Cox School of Business may request leadership courses from these programs to substitute for the Computer Science leadership courses. These requests must be approved by the Computer Science Department.

Total for the Major Only: 59 Credit Hours

Computer Science, B.S.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Science (24-26 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra
- CS 2353 - Discrete Computational Structures
- CS 4340 - Statistical Methods for Engineers and Applied Scientists (Students may fulfill the CS 4340 requirement by taking any one of CS 4340/STAT 4340, or EMIS 3340.)
- One 3000-level or higher MATH or STAT course (3 credit hours)

Two courses (6-8 Credit Hours)
Both courses must be selected from the same content area.

Content Area 1, Biology
- BIOL 1301 - Introductory Biology/BIOL 1101 - Introductory Biology Lab
- BIOL 1302 - Introductory Biology/BIOL 1102 - Introductory Biology Lab

Content Area 2, Chemistry
- CHEM 1303 - General Chemistry/CHEM 1113 - General Chemistry Laboratory
- CHEM 1304 - General Chemistry/CHEM 1114 - General Chemistry Laboratory

Content Area 3, Geology
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

Content Area 4, Physics
- PHYS 1303 - Introductory Mechanics/PHYS 1105 - Mechanics Laboratory
- PHYS 1304 - Introductory Electricity and Magnetism/PHYS 1106 - Electricity and Magnetism Laboratory
- PHYS 3305 - Introduction to Modern Physics

Computer Science Core (47 Credit Hours)
- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2240 - Assembly Language Programming and Machine Organization
- CS 2341 - Data Structures
- CS 3330 - Database Concepts
- CS 3339 - Information Assurance and Security
- CS 3342 - Programming Languages
- CS 3345 - Graphical User Interface Design and Implementation
- CS 3353 - Fundamentals of Algorithms
- CS 3381 - Digital Logic Design
- CS 4344 - Computer Networks and Distributed Systems
- CS 4345 - Software Engineering Principles
- CS 4351 - Senior Design I
- CS 4352 - Senior Design II
- CS 4381 - Digital Computer Design
- CS 5343 - Operating Systems and Systems Software

Tracks and Electives (9-10 Credit Hours)
Artificial Intelligence and Machine Learning (9 credit hours)
- CS 5320 - Artificial Intelligence
- CS 5324 - Machine Learning in Python
- 3 credit hours of track electives approved by adviser

Data Engineering (9 credit hours)
- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- 3 credit hours of track electives approved by adviser

Game Development (10 credit hours)

(Must be admitted to Guildhall Professional Certificate program and attend class at SMU Guildhall.)

- HGME 5121 - Math and Physics I
- HGME 5122 - Programming for Commercial Game Engines I
- HGME 5311 - Software Development for Games I
- HGME 5592 - Team Game Production I
- CS 4051 - Gaming Design Project

General (9 credit hours)

Three 3-hour, 4000-level or above CS courses approved by adviser

Research (9 credit hours)

- CS 4397 - Research Experience for Undergraduates
- CS 5350 - Algorithm Engineering
- 3 credit hours of track electives approved by adviser

Security (9 credit hours)

- CS 5339 - Computer System Security
- CS 5349 - Data and Network Security
- 3 credit hours of track electives approved by adviser

Software Engineering (9 credit hours)

- Select two of the following three courses:
    - CS 5314 - Software Testing and Quality Assurance
    - CS 5319 - Software Architecture and Design
    - CS 5340 - Service-Oriented Computing
- 3 credit hours of track electives approved by adviser

Engineering Leadership (6 Credit Hours)

Choose two courses from the following list:

- CS 3377 - Ethical Issues in Computing
- CS 4360 - Technical Entrepreneurship
- CS 5317 - Leadership for Architecting Software Systems
- CEE 2302 - Authentic Leadership
- CEE 3302 - Engineering Communications
- CEE 5302 - Leadership in Development Sector
- CEE 5303 - Citizen Engineering with Community-Based Design Research
- EMIS 2375 - Cultural and Ethical Implications of Technology
- EMIS 3308 - Engineering Management

  Students who are also enrolled in a major or minor program in the Cox School of Business may request leadership courses from these programs to substitute for the Computer Science leadership courses. These requests must be approved by the Computer Science Department.

Electives (6 Credit Hours)

Advanced electives in the Lyle School of Engineering.

Total for the Major Only: 92-95 Credit Hours

Note: All computer science majors must earn a grade of *C-* or better in the computer science core courses and CS 2353 in fulfillment of the requirements for the major. Students choosing the game development track do not take CS 4351 and CS 4352 and have a total degree requirement of 95 hours.

Computer Science, B.S. - Premedical Track

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Premedical Track

Mathematics and Science (56 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra
- CS 2353 - Discrete Computational Structures

- CS 3365 /MATH 3315 - Introduction to Scientific Computing
  or
- CS 4340 - Statistical Methods for Engineers and Applied Scientists (Students may fulfill the CS 4340 requirement by taking any one of CS 4340/STAT 4340, or EMIS 3340.)

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Computer Science (44 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2240 - Assembly Language Programming and Machine Organization

- CS 2341 - Data Structures
- CS 3330 - Database Concepts
- CS 3342 - Programming Languages
- CS 3345 - Graphical User Interface Design and Implementation
- CS 3353 - Fundamentals of Algorithms
- CS 3381 - Digital Logic Design
- CS 4344 - Computer Networks and Distributed Systems
- CS 4345 - Software Engineering Principles
- CS 4351 - Senior Design I
- CS 4352 - Senior Design II
- CS 4381 - Digital Computer Design
- CS 5343 - Operating Systems and Systems Software

Engineering Leadership (6 Credit Hours)

- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship

Total for the Major Only: 106 Credit Hours

Computer Science Minor

A student majoring in computer engineering may not minor in computer science.

Requirements for the Minor

The following computer science courses are required:

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2341 - Data Structures
- CS 2353 - Discrete Computational Structures

Elective Courses

Elective courses can be any six hours of CSE courses numbered 3000 or above as approved by the computer science minor adviser.

Total: 18 Credit Hours

Computer Science Courses

CS 1340 - Introduction to Computing Concepts
Credits: 3
Introduction to computer concepts, program structures, object-oriented programming, and interactive application development. Extensive programming projects emphasizing logical control structures and the use of libraries.

CS 1341 - Principles of Computer Science
Credits: 3
Introduces the fundamental concepts of computer science and object-oriented design of reusable modules. Covers basic object-oriented concepts of composition, inheritance, polymorphism, and containers. First course for computer science and computer engineering majors and minors.

CS 1342 - Programming Concepts
Credits: 3
Introduces the constructs provided in the C/C++ programming language for procedural and object-oriented programming. Computation, input and output, flow of control, functions, arrays and pointers, linked structures, use

of dynamic storage, and implementation of abstract data types. Prerequisite: C- or better in CS 1341 or equivalent, a grade of at least 4 on the AP Computer Science A Exam, or departmental consent.

CS 2240 - Assembly Language Programming and Machine Organization
Credits: 2
Computer–related number systems, machine arithmetic, computer instruction set, low–level programming, addressing modes, and internal data representation. Prerequisite: C– or better in CS 1341.

CS 2341 - Data Structures
Credits: 3
Emphasizes the object-oriented implementation of data structures and associated algorithms, including sorting algorithms, linked lists, stacks, queues, binary trees, and priority queues. Introduces graphs and algorithm analysis, and covers object-oriented software engineering strategies and approaches to programming. Prerequisite: C- or better in CS 1342 or equivalent.

CS 2353 - Discrete Computational Structures
Credits: 3
Logic, proofs, partially ordered sets, and algebraic structures; introduction to graph theory and combinatorics; and applications of these structures to various areas of computer science. Prerequisite: C- or better in CS 1341.

CS 3330 - Database Concepts
Credits: 3
Covers fundamental information management and database systems concepts, including information models and systems, data modeling, relational database design, query languages, and various language APIs for accessing database systems. Contains a major design and implementation project. May include topics from information privacy and security, information retrieval, data mining, and multimedia information systems. Prerequisites: C- or better in CS 2341, CS 2353.

CS 3339 - Information Assurance and Security
Credits: 3
Provides a broad introduction to information assurance and security. Students gain a foundational understanding of the protection of information assets and explore a broad spectrum of topics in the field. Covers a range of technical topics (e.g., network security, systems security, access control, cryptography) as well as nontechnical topics (e.g., management, legal issues, policy, ethics, history). Prerequisite: C- or better in CS 2341 or equivalent.

CS 3342 - Programming Languages
Credits: 3
Provides an understanding of how advances in hardware and networks have influenced the design and capabilities of programming languages from the 1950s to the present. Covers major programming paradigms (procedural, declarative, object-oriented, and functional) and requires problem-solving using a variety of languages. Topics include the history of programming languages, the Chomsky language hierarchy, the development of formal models for specifying languages, data structures for programming language implementation, and the ways different languages deal with problem of concurrency in a world of multicore and distributed computing. Prerequisite: C- or better in CS 2341.

CS 3345 - Graphical User Interface Design and Implementation
Credits: 3
Introduction to the concepts underlying the design and implementation of graphical user interfaces, with emphasis on the psychological aspects of human–computer interaction. Structured around lectures, case studies, and student projects. Introduces web programming concepts including HTML, CSS, JavaScript and Single Page Application (SPA) development. Prerequisites: C– or better in CS 2341 or equivalent.

CS 3353 - Fundamentals of Algorithms
Credits: 3
Introduces algorithm analysis; big-Oh, omega, and theta notation; and algorithm classification by efficiency. Also, basic algorithm design strategies and approaches to problem-solving (e.g., greedy, divide and conquer, and dynamic

programming), an introduction to graph algorithms, and intractability. Prerequisites: C- or better in CS 2341, CS 2353.

CS 3377 - Ethical Issues in Computing
Credits: 3
Provides an overview of ethical and legal issues and implications associated with computing and information technology. Topics include ethical frameworks, information privacy, information security, intellectual property, software and computer reliability, artificial intelligence, professional ethics, and more. Students participate in discussions, produce written reports, and make oral presentations. Prerequisites: C- or better in CS 2341 or equivalent.

CS 3381 - Digital Logic Design
Credits: 3
Covers the history of logic and its application to digital switching circuitry. Topics include algebraic, combinational, and sequential circuitry. Emphasizes programmable logic and hardware description languages for modeling, synthesis, and simulation. Introduces the controller plus datapath architecture present in the majority of modern information processing circuits. Requires a weekly corequisite laboratory. Prerequisites: C- or better in CS 2240, CS 2353 or permission of instructor.

CS 4051 - Gaming Design Project
Credits: 0
Requires students enrolled in HGAM 5292 to produce appropriate reports and other design documentation material resulting from their HGAM 5292 design experience, including design requirements, specifications, test plans, and other relevant documentation as required for assessing the design experience. Corequisite: HGAM 5292.

CS 4090 - Senior Project
Credits: 0

CS 4190 - Undergraduate Project
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4191 - Undergraduate Project
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4192 - Undergraduate Project
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4193 - Undergraduate Project
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4194 - Undergraduate Project
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4197 - Research Experience for Undergraduates
Credits: 1
Provides research experience for junior/senior undergraduate students. Permission from the advising CS faculty

member is required before registration. Prerequisites: Junior/senior standing; computer science or computer engineering major with GPA above 3.000.

CS 4290 - Undergraduate Project
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4291 - Undergraduate Seminar
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4292 - Undergraduate Seminar
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4293 - Undergraduate Seminar
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4294 - Undergraduate Seminar
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4297 - Research Experience for Undergraduates
Credits: 2
Provides research experience for junior/senior undergraduate students. Permission from the advising CS faculty member is required before registration. Prerequisites: Junior/senior standing; computer science or computer engineering major with GPA above 3.000.

CS 4340 - Statistical Methods for Engineers and Applied Scientists
Credits: 3
Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Topics include probability, probability distributions, data analysis, sampling distributions, estimation, and simple tests of hypothesis. Prerequisites: C- or better in MATH 1337, MATH 1338.

CS 4344 - Computer Networks and Distributed Systems
Credits: 3
Introduces network protocols, layered communication architecture, wired and wireless data transmission, data link protocols, network routing, TCP/IP and UDP, email and the World Wide Web, distributed computing, mutual exclusion, linearizability, locks, and multithreaded computing. Prerequisite: C- or better in CS 2341.

CS 4345 - Software Engineering Principles
Credits: 3
Introduction to software system development and an overview of development models and their stages. Also, system feasibility and requirements engineering, architecture and design, validation and verification, maintenance, and evolution. Includes project management and a review of current software engineering literature. Student teams design and implement small-scale software systems. Contains class presentations and a major design experience. Prerequisite: C- or better in CS 2341.

CS 4351 - Senior Design I
Credits: 3
First part of a project course, with a major design component. Students participate in a multidisciplinary group project team. Topical, project-related discussions include project team organization, project planning and scheduling, management, testing and validation methods, and the importance of lifelong learning. Prerequisite: Senior standing in Computer Science (BS or BA) or Computer Engineering.

CS 4352 - Senior Design II
Credits: 3
Second part of a project course, with a major design component. Students participate in a multidisciplinary group project team. Topical, project-related discussions include project team organization, project planning and scheduling, management, testing and validation methods, and the importance of lifelong learning. Prerequisite: CS 4351.

CS 4360 - Technical Entrepreneurship
Credits: 3
Demonstrates the concepts involved in the management and evolution of rapidly growing technical endeavors. As part of a team, the student participates in active learning by doing, by making mistakes and developing solutions, and by observing mistakes and approaches made by other teams. Credit will not be given for both CS 4360 and EMIS 8358. Prerequisite: Senior standing or permission of instructor.

CS 4381 - Digital Computer Design
Credits: 3
Machine organization, instruction set architecture design, memory design, control design: hardwired control and microprogrammed control, algorithms for computer arithmetic, microprocessors, and pipelining. Prerequisites: C- or better in CS 2240 and CS 3381.

CS 4391 - Undergraduate Project
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4392 - Undergraduate Project
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4393 - Undergraduate Project
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4394 - Undergraduate Project
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4397 - Research Experience for Undergraduates
Credits: 3
Provides research experience for junior/senior undergraduate students. Permission from the advising CS faculty member is required before registration. Prerequisites: Junior/senior standing; computer science or computer engineering major with GPA above 3.000.

CS 4490 - Undergraduate Project
Credits: 4
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4491 - Undergraduate Project
Credits: 4
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4492 - Undergraduate Project
Credits: 4
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4493 - Undergraduate Project
Credits: 4
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 4494 - Undergraduate Project
Credits: 4
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

CS 5050 - Undergraduate Internship
Credits: 0

CS 5096 - Senior Thesis
Credits: 0
Prerequisite: Admission to the departmental distinction program.

CS 5111 - Intellectual Property and Information Technology
Credits: 1
Presents fundamentals in the nature, protection, and fair use of intellectual property, including patent, copyright, trademark, trade secret, and antitrust principles, with an emphasis on Internet, software, databases, and digital transmission technologies. Investigates the open source and creative commons alternatives for disseminating intellectual property. Examines the professional and ethical responsibilities of the engineer, scientist, manager, and creative artist, and their opportunities regarding intellectual property. Also, investigates the rapid change in types and uses of intellectual property spawned by computers, digital media, e commerce, and biotechnology.

CS 5190 - Special Topics
Credits: 1
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5191 - Special Topics
Credits: 1
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5192 - Special Topics
Credits: 1
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5193 - Special Topics
Credits: 1
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5194 - Special Topics
Credits: 1
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5196 - Senior Thesis
Credits: 1
Prerequisite: Admission to the departmental distinction program.

CS 5290 - Special Topics
Credits: 2
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.
CS 5291 - Special Topics
Credits: 2
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5292 - Special Topics
Credits: 2
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5293 - Special Topics
Credits: 2
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5294 - Special Topics
Credits: 2
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5296 - Senior Thesis
Credits: 2
Prerequisite: Admission to the departmental distinction program.

CS 5311 - Fundamentals of Computer Science
Credits: 3
A comprehensive foundation course covering the major aspects of computer science. Covers hardware and software fundamentals, operating systems concepts, data structures, discrete structures, algorithms, and programming languages. Also, addresses issues related to software engineering and object-oriented programming. Prepares students without a computer science background for the master's program in software engineering at SMU.

CS 5313 - Software Configuration Management
Credits: 3
Successful software development and maintenance requires an understanding and application of many activities and functions throughout the software engineering process. One of the key areas is software configuration management. Students explore the principles and practices of the software configuration management function and mandatory role, including how CM is defined, planned, implemented, and measured over the life cycle of any development or maintenance project. Focuses on understanding specific roles of project team members and the tasks they plan and execute: managers who must support the CM efforts; project managers who must plan and design the CM system for their projects; those who implement the system; those who manage and administer the system; and the testers, engineers, and quality assurance personnel who are affected by the system. Prerequisites: CS major and junior, senior, or graduate-level standing.

CS 5314 - Software Testing and Quality Assurance
Credits: 3
Examines the relationship of software testing to quality, with an emphasis on testing techniques and the role of testing in the validation of system requirements. Topics include module and unit testing, integration, code inspection, peer reviews, verification and validation, statistical testing methods, error prevention and detection, project metrics selection and implementation, testing principles, formal models of testing, and performance monitoring, and measurement. Also, defining test plans and strategies that map to system requirements. Prerequisites: C- or better in all previous CS courses and senior standing. It is strongly recommended that students have software engineering experience.

CS 5315 - Software Project Planning and Management
Credits: 3
Intended for individuals who seek to plan and/or lead a software development project in industry or academia. Covers the process of planning and managing a software development project from initiation to implementation. Primary topics include schedule, risk, issue, financial, scope, and change management. Other key topics deal with controlling functions for tracking progress and estimating cost, duration, complexity, functionality, and delivery management. Additional topics addressed include the software development process, capability maturity models, software lifecycle models (Waterfall, Agile, Iterative), configuration management, quality assurance, measurement, and process improvement. Prerequisites: Junior standing or above with a major in computer science, computer engineering, or management science (other undergraduate majors welcomed with permission).

CS 5316 - Software Requirements
Credits: 3
Focuses on defining and specifying software requirements that can be used as the basis for designing and testing software. Topics include use cases for describing system behavior, formal methods, specifying functional versus nonfunctional requirements, and the relationship of requirements to software testing. Prerequisites: C- or better in all previous CS courses and senior standing.

CS 5317 - Leadership for Architecting Software Systems
Credits: 3
Principles of leadership and software architecture in building large software systems or leading large teams. Involves a mix of personal assessment, reflection, and the development of leadership and influence skills and concepts unique to each student. Examines the process of developing large software systems in a constantly changing commercial environment. Prerequisite: Junior standing or higher.

CS 5319 - Software Architecture and Design
Credits: 3
Software development requires both an understanding of software design principles and a broader understanding of software architectures that provide a framework for design. The course explores the role of design in the software life cycle, including different approaches to design, design trade-offs, and the use of design patterns in modeling object-oriented solutions. It also focuses on important aspects of a system's architecture, including the division of functions among system modules, synchronization, asynchronous and synchronous messaging, interfaces, and the representation of shared information. Prerequisites: C- or better in all CS courses and senior standing.

CS 5320 - Artificial Intelligence
Credits: 3
Introduces basic principles and current research topics in artificial intelligence. Formal representation of real-world problems; search of problem spaces for solutions; and deduction of knowledge in terms of predicate logic, nonmonotonic reasoning, and fuzzy sets. Application of these methods to important areas of artificial intelligence, including expert systems, planning, language understanding, machine learning, neural networks, computer vision, and robotics. Prerequisites: C- or better in CS 3342, CS 3353.

CS 5322 - Introduction to Natural Language Processing
Credits: 3
Introduction of the core problems of natural language processing. Presents algorithms for basic NLP problems from morphology, text preprocessing, language modeling, tagging, parsing, and lexical semantics. Covers solutions ranging from traditional algorithmic approaches to modern machine learning approaches, that include rule-based methods and corpus-based methods. Prerequisites: CS 3353, MATH 3304.

CS 5323 - Mobile Applications for Sensing and Learning
Credits: 3
Equips students with the practical skills necessary to develop mobile applications that take advantage of the myriad sensing and control capabilities of modern smartphones. Focuses on interfacing with phone hardware, efficient computing on the phone and in the cloud using virtualized servers, and efficient analysis of the peripheral sensor

streams of today's smartphones. Students integrate real-time control and/or automation using a third-party hardware platform to interface with the mobile platform. Prerequisite: CS 1342.

CS 5324 - Machine Learning in Python
Credits: 3
Introduces the processes of learning from data. Provides an overview of a number of machine learning techniques, including pre-processing, visualization, classification, and regression, used in analytics. Covers classic and contemporary learning techniques, with emphasis on artificial neural networks and deep learning methods. Material covered will be reinforced through hands-on experience using state-of-the art tools. Class examples and assignments will come from the programming language Python. Knowledge of linear algebra, calculus, introductory algorithm analysis, statistics/probability, and an introduction to python programming is suggested. Prerequisites: C- or better in CS 2341 and MATH 3304.

CS 5330 - File Organization and Database Management
Credits: 3
Surveys current database approaches and systems, principles of design, and use of these systems. Includes query language design, implementation constraints, applications of large databases, survey of file structures and access techniques, and use of a relational DBMS to implement a database design project. Prerequisite: C- or better in CS 3330.

CS 5331 - Data Mining
Credits: 3
Introduces data mining techniques (classification, association analysis, and cluster analysis) used in analytics. All material covered is reinforced through hands-on experience using state-of-the art tools to design and execute data mining processes. Prerequisites: CS 1342, CS 4340/EMIS 3340/STAT 4340, CS 3330 or EMIS 3309.

CS 5333 - Quantifying the World
Credits: 3
In the global information age, data can be leveraged to rapidly answer previously unanswerable questions. Students explore how to make sense of the large amounts of data frequently available, from hypothesis formation and data collection to methods of analysis and visualization. Includes ways to set up Internet-level measurements and formulate testable hypotheses; ways to automatically gather, store, and query large datasets; and ways to apply statistical methods (descriptive and predictive) and information visualization to collected datasets. Students learn to use Python and R programming languages to carry out data collection, analysis, and visualization. Culminates in a final project using real data of the students' choosing.

CS 5337 - Information Retrieval and Web Search
Credits: 3
Introduces the field of information retrieval, with an emphasis on its application in Web search, and the basic concepts of stemming, tokenizing and inverted indices, text similarity metrics, and the vector-space model. Students study popular Web search engines and apply the concepts in several Java-based programs. Prerequisite: CS 3353.

CS 5338 - Security Economics
Credits: 3
Introduces 1) economics as a tool for understanding and managing information security and 2) the techniques of analytic and empirical modeling. Students review key information security challenges and technologies in order to reason about the topics economically, and they explore economic concepts such as rationality, markets, and information. Presents models and metrics of security investment, cost-benefit analysis techniques, and techniques for empirical investigation and measurement of cybercrime. Students design security games to capture the strategic interaction between defenders and between attackers and defenders. Includes the implications for public policy. Prerequisite: CS 3353 or junior standing if not a declared CS major.

CS 5339 - Computer System Security
Credits: 3
Students investigate a broad selection of contemporary issues in computer security, including an assessment of state-of-the-art technology used to address security problems. Topics include sources for computer security threats and appropriate reactions, basic encryption and decryption, secure encryption systems, program security, trusted operating systems, database security, network and distributed systems security, administering security, and legal and ethical issues. Prerequisite: CS 5343.

CS 5340 - Service-Oriented Computing
Credits: 3
Service-oriented computing is the computing paradigm that utilizes services as fundamental elements for developing applications. Service providers expose capabilities through interfaces. Service-oriented architecture maps these capabilities and interfaces so they can be orchestrated into processes. Fundamental to the service model is the separation between the interface and the implementation, such that the invoker of a service need only (and should only) understand the interface; the implementation can evolve over time, without disturbing the clients of the service. Prerequisites: Senior or graduate standing. Programming experience is required.

CS 5341 - Compiler Construction
Credits: 3
Reviews programming language structures, loading, execution, and storage allocation; compilation of simple expressions and statements; organization of a compiler, including compile- and run-time symbol tables, lexical analysis, syntax analysis, code generation, error diagnostics, and simple code optimization techniques; and use of a recursive high-level language to implement a complete compiler. Prerequisites: C- or better in CS 3342, CS 3353.

CS 5342 - Concepts of Language Theory and Their Applications
Credits: 3
Formal languages and their relation to automata; introduction to finite-state automata, context-free languages, and Turing machines; theoretical capabilities of each model; applications in terms of grammars, parsing, and operational semantics; and decidable and undecidable problems about computation. Prerequisite: C- or better in CS 3342 or permission of instructor.

CS 5343 - Operating Systems and Systems Software
Credits: 3
Theoretical and practical aspects of operating systems: overview of system software, timesharing and multiprogramming operating systems, network operating systems and the Internet, virtual memory management, interprocess communication and synchronization, file organization, and case studies. Prerequisites: C- or better in CS 2240, CS 3353.

CS 5344 - Computer Networks and Distributed Systems II
Credits: 3
Introduces network protocols, layered communication architecture, multimedia applications and protocols, quality of service, congestion control, optical networks, DWDM, network survivability and provisioning, and wireless networks. An interdisciplinary project requires the use of currently available network design and simulation tools. Prerequisite: C- or better in CS 4344.

CS 5345 - Advanced Application Programming
Credits: 3
Advanced programming techniques that span a range of programming languages and technologies. Includes server-side application development, client GUI implementation, application frameworks, design patterns, model-based development, and multithreading. The specific programming language or languages covered may vary from term to term. Prerequisite: CS 3345 or consent of instructor.

CS 5346 - Cloud Computing
Credits: 3
Explores architectures for cloud computing, and provides hands-on experience with virtualization technologies. Topics include cloud computing architectures such as infrastructure as a service, platform as a service, and software as a service. Covers programming models for cloud computing, the fundamentals of virtualization technologies that enable scalability, and an introduction to the security and energy efficiency challenges of cloud computing. Prerequisite: CS 4381.

CS 5347 - XML and the Enterprise
Credits: 3
XML, the Extensible Markup Language, is used to define vocabularies for a wide range of applications such as software configuration, data exchange, and Web-based protocols. Provides a detailed examination of XML as an enterprise technology, with a focus on APIs, interfaces, and the standards that drive this technology, including DTDs and XML Schema to structure XML data, XSLT to transform XML, XML protocols for distributed computing, and XML security initiatives. Students gain a broad understanding of XML and the technical issues and trade-offs among different alternatives for processing XML. Prerequisites: An understanding of object-oriented concepts and familiarity with Java and/or C++.

CS 5348 - Internetworking Protocols and Programming
Credits: 3
Processing and interprocess communications, UNIX domain sockets, fundamentals of TCP/IP, Internet domain sockets, packet routing and filtering and firewall, SNMP and network management, client-server model and software design, remote procedure call (XDR, RPC, DCE), design of servers and clients, networking protocols for the World Wide Web, and internetworking over new networking technologies. Prerequisites: C- or better in CS 4344, CS 5343 and C programming.

CS 5349 - Data and Network Security
Credits: 3
Covers conventional and state-of-the-art methods for achieving data and network security. Private key and public key encryption approaches are discussed in detail, with coverage of popular algorithms such as DES, Blowfish, and RSA. In the network security area, the course covers authentication protocols, IP security, Web security, and system-level security. Prerequisite: C- or better in CS 4344.

CS 5350 - Algorithm Engineering
Credits: 3
Algorithm design techniques; methods for evaluating algorithm efficiency; data structure specification and implementation; applications to fundamental computational problems in sorting and selection, graphs and networks, scheduling and combinatorial optimization, computational geometry, and arithmetic and matrix computation; introduction to parallel algorithms and to computational complexity; and a survey of NP-complete problems. Emphasizes developing the student's facility to design efficient algorithms. Prerequisite: C- or better in CS 3353.

CS 5359 - Software Security
Credits: 3
As software is delivered across networks and Web-based environments, security is critical to successful software deployment. This course focuses on software security issues that pertain to the network application layer in the classic OSI model. At the network application layer, issues related to encryption, validation, and authentication are handled programmatically rather than at the network level. Students work with APIs for cryptography, digital signatures, and third-party certificate authorities. The course also explores issues related to XML and Web services security by examining standards and technologies for securing data and programs across collaborative networks. Prerequisite: Programming experience in Java and/or C++.

CS 5360 - Introduction to 3-D Animation
Credits: 3
Introduces computer graphics, with an emphasis on the popular software package Maya. Focuses on the user interface, creation of 3-D geometry using polygonal techniques, materials and textures, kinematics, animation, and

camera and lighting techniques. Explores the various aspects and fundamentals of computer graphics. Students gain a core understanding of the workflow necessary to create 3-D imagery. Assignments require students to combine a variety of techniques to become familiar with the computer animation production process. Prerequisite: Junior standing or higher. May not be used for credit in a graduate degree program in CS without adviser's approval.

CS 5369 - Hardware Security and Trojan Detection
Credits: 3
Introduces several contemporary topics in hardware security, with a particular emphasis on hardware Trojans. Other topics include physically unclonable functions, the problem of counterfeiting, security implications of design for testability in hardware, intellectual property protection, and secure coprocessors and smart cards. Prerequisite: C or better in CS 3381 or equivalent.

CS 5380 - VLSI Algorithms
Credits: 3
Introduces problems, algorithms, and optimization techniques used in the design of high-performance VLSI design. Emphasis on algorithms for partitioning, placement, floor planning, wire routing, and layout compaction. Prerequisites: C- or better in CS 3353, CS 3381.

CS 5381 - Computer Architecture
Credits: 3
Introduces the state of the art in uniprocessor computer architecture, with a focus on the quantitative analysis and cost-performance trade-offs in instruction set, pipeline, and memory design. Topics include quantitative analysis of performance and hardware costs, instruction set design, pipeline, delayed branch, memory organization, and advanced instruction-level parallelism. Prerequisite: C- or better in CS 4381.

CS 5382 - Computer Graphics
Credits: 3
Introduction to classic computer graphics pipeline concepts including modeling, texturing, light and shading, 2D and 3D transformations, and image formation using GPU computing techniques and an industry standard graphics shading language. Prerequisite: C- or better in CS 3353.

CS 5385 - Microcontroller Architecture and Interfacing
Credits: 3
Emphasizes the design of embedded systems using microcontrollers. Briefly reviews microcontroller architecture. Includes hierarchical memory systems and interfacing of memory and peripherals, industry standard bus interfaces and other applicable standards, and topics in real-time operating systems and system-level design considerations. The corequisite laboratory requires students to develop software using assembler and high-level languages. Prerequisite: CS 3381 or ECE 3181, ECE 3381.

CS 5387 - Digital Systems Design
Credits: 3
Modern topics in digital systems design, including the use of HDLs for circuit specification and automated synthesis tools for realization. Programmable logic devices are emphasized and used throughout the course. Includes heavy laboratory assignment content and a design project. Prerequisite: C- or better in CS 3381 or in ECE 2381.

CS 5390 - Special Topics
Credits: 3
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5391 - Special Topics
Credits: 3
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5392 - Special Topics
Credits: 3
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5393 - Special Topics
Credits: 3
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5394 - Special Topics
Credits: 3
Individual or group study of selected topics in computer science. Prerequisite: Permission of instructor.

CS 5396 - Senior Thesis
Credits: 3
Prerequisite: Admission to the departmental distinction program.

Electrical and Computer Engineering

Professor Dinesh Rajan, **Chair**

Professors: Jerome K. Butler, Jung-Chih Chiao, Marc P. Christensen, Scott C. Douglas, Gary A. Evans, Ping Gui, Duncan L. MacFarlane, Suku Nair, Behrouz Peikari, Dinesh Rajan, Ron Rohrer, Mitch Thornton, Jianhui Wang
Associate Professors: Joseph D. Camp, Carlos E. Davila, James G. Dunham, Jennifer Dworak, Mohammad Khodayar, Choon S. Lee
Assistant Professors: Kevin Brenner, Prasanna Rangarajan
Senior Lecturer: M. Scott Kingsley
Adjunct Faculty: Veepsa Bhatia, Hakki C. Cankaya, Shaibal Chakrabarty, Sudipto Chakraborty, Joseph R. Cleveland, Alfred Crouch, Mohamed Ezzat, John Fattaruso, Dilshan Godaliyadda, Clark D. Kinnaird, Bhalaji Kumar, Jason Moore, Nomaan Mufti, James Olivier, Phillip Pace, John Rhymer, Steven G. Pelosi, Kamakshi Sridhar, Nagarajan Sridhar, Dario J. Villarreal Suarez, John Widhalm

General Information

The discipline of electrical and computer engineering is at the core of today's technology-driven society. Personal computers, computer-communications networks, integrated circuits, optical technologies, digital signal processors and wireless communications systems have revolutionized the way people live and work, and extraordinary advances in these fields are announced every day. Degrees in electrical and computer engineering offer exceptional opportunities for financial security, personal satisfaction and an expansion of the frontiers of technology. The Department of Electrical and Computer Engineering at SMU offers a full complement of courses at the bachelor's degree level in communications, networks, digital signal processing, optoelectronics, electromagnetics, microelectronics, computer architecture, digital systems, and hardware security.

The mission of the department is as follows:
Through quality instruction and scholarly research, to engage each student in a challenging electrical and computer engineering education that prepares graduates for the full range of career opportunities in the high-technology marketplace and enables them to reach their fullest potential as a professional and as a member of society.

Departmental goals include the following:

- Becoming one of the nation's leading electrical and computer engineering departments by building peaks of research excellence and by being a leader in innovative educational programs.
- Offering undergraduate curricula that equips graduates for careers that require ingenuity, integrity, logical thinking, and the ability to work and communicate in teams, and for the pursuit of graduate degrees in engineering or other fields such as business, medicine and law.
- Offering world-class Ph.D. programs that prepare graduates for academic careers, for research careers in the high-technology industry or for technical entrepreneurship.
- Promoting lifelong learning animated by a passion for the never-ending advance of technology.

The undergraduate student outcomes for the electrical engineering and computer engineering programs are as follows:

- An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply the engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

The Electrical and Computer Engineering Department is engaged in an ongoing assessment process that evaluates the success in meeting the educational objectives and outcomes and enhances the development of the program.

The undergraduate programs in electrical and computer engineering are accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org.

The Electrical and Computer Engineering Department emphasizes the following major areas of research interest:

- **Biomedical Engineering.** Overview of biomedical engineering, biomedical devices and instrumentation, biomedical signal capture, processing, and modeling.
- **Communications and Information Technology.** Detection and estimation theory, digital communications, computer networks, spread spectrum, cellular communications, coding, encryption, compression, and wireless and optical communications.
- **Control Systems.** Linear and nonlinear systems control, robotics, and computer and robot vision.
- **Computer Organization and Security.** Computer architecture, digital systems, and Trojan detection.
- **Multimedia Signal Processing and Computer Vision.** Digital filter design, system identification, spectral estimation, adaptive filters, neural networks, pattern recognition and DSP implementations.
- **Lasers, Optoelectronics, Electromagnetic Theory and Microwave Electronics.** Classical optics, fiber optics, laser recording, integrated optics, dielectric waveguides, antennas, transmission lines, laser diodes and signal processors, and superconductive microwave and optoelectronic devices.
- **Solid State Circuits, Computer-Aided Circuit Design and VLSI Design.** Electronic circuits, computer-aided design, very large-scale integration design and memory interfaces.
- **Electronic Materials and Solid State Devices.** Fabrication and characterization of devices and materials, device physics, noise in solid state devices, infrared detectors, AlGaAs and GaAs devices and materials, superconductivity, superconductive devices and electronics, thin films, hybrid superconductor-semiconductor devices, ultrafast electronics, and applications of a scanning tunneling microscope.
- **Telecommunications and Network Engineering.** Overview of modern telecommunications components and systems, data communications, digital telephony, and digital switching.
- **Power Engineering.** Power system operation and planning, renewable energy integration, smart grid, transportation electrification, and resilient energy networks.

Department Facilities

The department has access to the Lyle School of Engineering academic computing resources, consisting of shared-use computer servers and desktop client systems connected to a network backbone. In addition to servers and shared computational resources, the Lyle School of Engineering maintains a number of individual computing laboratories associated with the departments. Specific department laboratory facilities for instruction and research include the following:

Antenna Laboratory. This laboratory consists of two facilities for fabrication and testing. Most of the antennas fabricated at the SMU antenna lab are microstrip antennas. Antennas are made with milling machines. Fabricated antennas are characterized with a network analyzer. Workstations are available for antenna design and simulation with COMSOL and HFSS. Radiation characteristics are measured at the SMU Antenna Characterization Chamber in the SMU East campus, where the frequency ranges from 500 MHz to 40 GHz.

Biomedical Engineering Laboratory. This laboratory contains instrumentation for carrying out research in electrophysiology and psychophysics. Four Grass physiographs permit the measurement of electroencephalograms as well as visual and auditory evoked brain potentials. The lab also contains a state-of-the-art dual Purkinje eye tracker and image stabilizer, a Vision Research Graphics 21-inch Digital Multisync Monitor for displaying visual stimuli, and a Cambridge Research Systems visual stimulus generator capable of generating a variety of stimuli for use in psychophysical and electro-physiological experiments.

Circuit Fabrication Laboratory. This lab is fully equipped with modern fabrication tools to design and fabricate multi-layer circuit boards of various sizes, complexity, and design rules, ideally suited for RF and microwave applications. An automated circuit board plotter produces PCB prototypes from CAD files, for both rigid and flexible substrates. An integrated through-hole electroplating system yields reliable copper layers on the surfaces of all existing vias, including multilayer boards. The boards are passed through six cascaded baths that are integrated in a safe enclosed benchtop system. Multi-layer boards are fabricated using a benchtop multi-layer hydraulic press to

aid in bonding the layers together. The lab also includes an automated de-solder/solder tool for surface mount components, and supporting instruments such as oscilloscopes, multi-meters, and microscopes.

Integrated Circuits and Computer Engineering Laboratory. This facility has state-of-the-art design tools and equipment to conduct design, simulations, and measurements of integrated circuits and systems. The tools, facility and equipment include electronic design automation (EDA) tools such as Cadence, ADS, Synopsys, HFSS, Mentor Graphics, and Xilinx software; IC measurement equipment including a high-speed sampling oscilloscope, spectrum analyzer, RF signal sources and a network analyzer. The SMU high- performance computer cluster is used for mixed-signal simulations.

Multimedia Systems Laboratory. This facility includes an acoustic chamber with adjoining recording studio to allow high-quality sound recordings to be made. The chamber is sound isolating with double- or triple-wall Sheetrock on all four sides, as well as an isolating ceiling barrier above the drop ceiling. The walls of the chamber have been constructed to be nonparallel to avoid flutter echo and dominant frequency modes. Acoustic paneling on the walls of the chamber are removable and allow the acoustic reverberation time to be adjusted to simulate different room acoustics. The control room next to the acoustic chamber includes a large, 4-foot-by-8-foot acoustic window and an inert acoustic door facing the acoustic chamber. Up to 16 channels of audio can be carried in or out of the chamber to the control room. Experiments conducted in the Multimedia Systems Laboratory include blind source separation, deconvolution and dereverberation. Several of the undergraduate courses in electrical engineering use sound and music to motivate system-level design and signal processing applications. The Multimedia Systems Laboratory can be used in these activities to develop data sets for use in classroom experiments and laboratory projects for students to complete.

NeuroMechatronics Lab. This laboratory is a fully equipped biomechatronics facility, which supports the activities of faculty, graduate students, and undergraduate students in theoretical and experimental tasks related to research in human-robot interfaces. The lab has the equipment to analyze, interpret, and decode the biomechanics and biological signals of human across a wide range of activities. In addition, this laboratory has the equipment to rapid prototype and test data-driven control systems in robotic and wearable devices designed to improve the quality of life in impaired individuals. The main equipment in the lab consists of a 16-camera motion capture system, wireless electromyography and electroencephalography sensors, and a lower-limb robotic exoskeleton.

Photonic Architectures Laboratory. This laboratory is a fully equipped optomechanical prototyping facility, supporting the activities of faculty and graduate students in experimental and analytical tasks. The lab is ideally suited for the prototyping, integration and testing of optical devices and systems. It includes infrastructure for imaging at microscopic and macroscopic scales. The lab has five optical tables three of which include vibration isolation. It also contains an assortment of light sources, both coherent and incoherent sources, at visible and infrared wavelengths. Devices for patterning light including Spatial Light Modulators, deformable mirror and pattern projectors. The lab also includes an assortment of detectors ranging from single pixel area detectors to focal plane arrays (FPA) at visible and infrared wavelengths. The lab additionally contains lock-in FPA's and Time-of-Flight (ToF) sensors featuring support for per-pixel homodyne detection. The lab also hosts a variety of measurement equipment including a wavefront sensor and a surface profilometer. A vast array of manual and motorized optomechanical components are also available. Support electronics hardware includes various test instrumentation, such as arbitrary waveform generators, and a variety of CAD tools for optical and electronic design, including optical ray trace and finite difference time domain software.

Photonic Characterization Laboratory. This laboratory is dedicated to characterizing the optical and electrical properties of photonic devices. Equipment in this laboratory program includes optical spectrum analyzers, optical multimeters, visible and infrared cameras, an automated laser characterization system for edge-emitting lasers, a manual probe test system for surface-emitting lasers, a manual probe test system for edge-emitting laser die and bars, and near- and far-field measurement systems.

Photonics Devices and Systems Laboratory. The PDSL houses a wealth of resources for developing and applying photonic components, devices and systems, including optics, mounting hardware, optical tables, design software, electronic instrumentation and fabrication equipment. Examples of ongoing research areas include communications and instrumentation, particularly for biomedical applications.

Photonics Simulation Laboratory. This laboratory has developed and continuously updates software for modeling and designing semiconductor lasers, optical waveguides, optical fibers, couplers, switches and optical waveguide isolators. These programs include:

- WAVEGUIDE: Calculates near-field, far-field and effective indices of dielectric waveguides and semiconductor lasers. Each layer can contain gain or loss.
- GAIN: Calculates the gain as a function of energy, carrier density and current density for strained and unstrained quantum wells for a variety of material systems.
- GRATING: Uses the Floquet Bloch approach and the boundary element method to calculate reflection, transmission and outcoupling of dielectric waveguides and laser structures with periodic layers or interfaces.
- FIBER: Calculates the fields, effective index, group velocity and dispersion for fibers with circularly symmetric index of refraction profiles.
- WAVEGUIDEISOLATOR: Calculates the bi-directional propagation constants in optical waveguides with ferromagnetic layers for the design, fabrication and analysis of integrated waveguide isolators.

Semiconductor Processing Cleanroom. The 2,800 square-foot cleanroom, consisting of a 2,400 square-foot, Class 10,000 room and a Class 1,000 lithography area of 400 square feet, is located in the Jerry R. Junkins Engineering Building. A partial list of equipment in this laboratory includes acid and solvent hoods, photoresist spinners, two contact mask aligners, a thermal evaporator, a plasma asher, a plasma etcher, a turbo-pumped methane hydrogen reactive ion etcher, a four-target sputtering system, a plasma-enhanced chemical vapor deposition reactor, a diffusion-pumped four pocket e-beam evaporator, an ellipsometer and profilometers. Other equipment includes a boron-trichloride reactive ion etcher, a chemical-assisted ion-beam etcher, a four-tube diffusion furnace, numerous optical microscopes and a scanning electron microscope. The cleanroom is capable of processing silicon, compound (III-V) semiconductors and piezo-electric materials for microelectronic, photonic and nanotechnology devices.

Submicron Grating Laboratory. This laboratory is dedicated to holographic grating fabrication and has the capability of 70 nm lines and spaces. Equipment in this laboratory includes a floating air table, a 266 nm UV laser, and an Atomic Force Microscope. This laboratory is used to make photonic devices with periodic features such as distributed feedback, distributed Bragg reflector, and grating-outcoupled and photonic crystal semiconductor lasers along with grating couplers and silicon photonic devices. A millimeter wave (100 GHz range) system allows experimental confirmation of grating theories by using gratings machined in aluminum nitride waveguides.

Wireless Systems Laboratory. This laboratory contains an array of infrastructure for experimentation across a number of wireless frequency bands, platforms and environments for research and instruction in lab-based courses on wireless communications and networking. The infrastructure includes 1) state-of-the-art test equipment for repeatability, control and observability of wireless channels, including complex channel emulators, fixed and mobile spectrum analyzers, wide-band oscilloscopes, and signal generators; 2) a wide range of reprogrammable wireless testbeds that operate from 400 MHz to 6 GHz for IEEE 802.11, cellular, and Bluetooth network and protocol development; and 3) diverse mobile phones and tablets that enable participatory sensing, context-aware applications and large-scale deployment in the field. The current focus is on better understanding drone based wireless links and the facility has multiple drones with the ability to carry different wireless test systems.

Curriculum in Electrical and Computer Engineering

The undergraduate curriculum in electrical and computer engineering provides the student with basic principles through required courses, and concentration through a guided choice of elective courses.

Transcripted Specializations and Track Areas

Due to the extensive latitude in course selection and to the wide variety of courses available within both the Department of Electrical and Computer Engineering and the University as a whole, it is possible for students to concentrate their studies in a specific professional area within ECE such as biomedical engineering, engineering leadership, or smart wireless and embedded systems. Each student, in discussion with their advisor, may select a transcripted specialization or track or may personalize their degree with a particular choice of advanced major electives. Only specializations will be included on students' transcripts.

Students may pursue a second degree program in math or physics. Students wishing to obtain a second degree in mathematics or physics should contact the respective departments in Dedman College to discuss the requirements.

Computer Engineering, B.S.Cp.E.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Science (34 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra
- MATH 3313 - Ordinary Differential Equations
- MATH 3315 - Introduction to Scientific Computing
- CS 2353 - Discrete Computational Structures

- ECE 3360 - Statistical Methods in Electrical and Computer Engineering
  or
- CS 4340 - Statistical Methods for Engineers and Applied Scientists (Students may fulfill the CS 4340 requirement by taking any one of CS 4340/STAT 4340, or EMIS 3340)

- CHEM 1303 - General Chemistry
- PHYS 1303 - Introductory Mechanics

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

3 credit hours from the following:

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science
- PHYS 3305 - Introduction to Modern Physics

Computer Engineering Core (51 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2341 - Data Structures

- CS 3339 - Information Assurance and Security
- CS 3353 - Fundamentals of Algorithms

- CS 4344 - Computer Networks and Distributed Systems
  or
- ECE 5376 - Introduction to Computer Networks

- CS 5343 - Operating Systems and Systems Software

- CS 5387 - Digital Systems Design
  or
- ECE 5387 - Digital Systems Design

- ECE 2322 - Electronic Circuits I
- ECE 2122 - ECE Laboratory: Electronic Circuits I
- ECE 2350 - Circuit Analysis I
- ECE 2370 - Design and Analysis of Signals and Systems
- ECE 2170 - ECE Laboratory: Design and Analysis of Signals and Systems
- ECE 2381 - Digital Computer Logic
- ECE 3381 - Microcontrollers and Embedded Systems
- ECE 3181 - ECE Laboratory: Microcontrollers and Embedded Systems
- ECE 3382 - Digital Computer Design
- ECE 4311 - Senior Design I
- ECE 4312 - Senior Design II

Transcripted Specializations (9 Credit Hours)

General

Three 3-hour, 4000-level or above ECE or CS courses approved by adviser.

Hardware

(three of the following)

- CS 5380 - VLSI Algorithms

- CS 5381 - Computer Architecture
  or
- ECE 5381 - Computer Architecture

- CS 5385 - Microcontroller Architecture and Interfacing
  or
- ECE 5385 - Microcontroller Architecture and Interfacing

- ECE 5356 - VLSI Design and Laboratory
- ECE 5369 - Trojan Detection and Hardware Security

Networking

(three of the following)

- CS 5344 - Computer Networks and Distributed Systems II
- CS 5348 - Internetworking Protocols and Programming

- CS 5349 - Data and Network Security
  or
- ECE 5349 - Data and Network Security

- ECE 5376 - Introduction to Computer Networks

Security
(three of the following)
- ECE 5339 - Computer System Security
- ECE 5349 - Data and Network Security
- ECE 5369 - Trojan Detection and Hardware Security
- 3 credit hours of track electives approved by adviser

Software Engineering
(three of the following)
- CS 3345 - Graphical User Interface Design and Implementation
- CS 4345 - Software Engineering Principles

- CS 5314 - Software Testing and Quality Assurance
  or
- CS 5316 - Software Requirements
  or
- CS 5319 - Software Architecture and Design

Engineering Leadership (3 Credit Hours)
- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship
- CS 5317 - Leadership for Architecting Software Systems
- EMIS 3308 - Engineering Management

Electives (6 Credit Hours)
Advanced electives in the Lyle School of Engineering.

Total for the Major Only: 103 Credit Hours
Note: All computer engineering majors must earn a grade of *C*- or better in the computer engineering CSE core courses and CS 2353 in fulfillment of the requirements for the major.

Electrical Engineering, B.S.E.E.
The electrical engineering curriculum is administered by the Department of Electrical and Computer Engineering.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
Mathematics and Science (31 Credit Hours)
- ECE 3360 - Statistical Methods in Electrical and Computer Engineering
- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations
- CHEM 1303 - General Chemistry

- PHYS 1303 - Introductory Mechanics
- PHYS 1304 - Introductory Electricity and Magnetism

- PHYS 1105 - Mechanics Laboratory
  or
- PHYS 1106 - Electricity and Magnetism Laboratory

One course from the following:

- MATH 3304 - Introduction to Linear Algebra
- MATH 3315 - Introduction to Scientific Computing
- MATH 4325 - Introduction to Dynamical Systems

One elective from the following:

- PHYS 3305 - Introduction to Modern Physics
- PHYS 3344 - Classical Mechanics
- PHYS 3374 - Thermodynamics and Statistical Mechanics
- CHEM 1304 - General Chemistry

Core Electrical Engineering (17 Credit Hours)

- ECE 1350 - Introduction to Electrical and Computer Engineering

- ECE 2322 - Electronic Circuits I
- ECE 2122 - ECE Laboratory: Electronic Circuits I

- ECE 2350 - Circuit Analysis I

- ECE 2370 - Design and Analysis of Signals and Systems
- ECE 2170 - ECE Laboratory: Design and Analysis of Signals and Systems

- ECE 2381 - Digital Computer Logic

Junior Electrical Engineering Courses (20 Credit Hours)

- ECE 3322 - Electronic Circuits II
- ECE 3122 - ECE Laboratory: Electronic Circuits II

- ECE 3381 - Microcontrollers and Embedded Systems
- ECE 3181 - ECE Laboratory: Microcontrollers and Embedded Systems

- ECE 3311 - Solid-State Devices
- ECE 3330 - Electromagnetic Fields and Waves
- ECE 3352 - Fundamentals of Electric Power Engineering
- ECE 3372 - Introduction to Signal Processing

Senior Design Sequence (6 Credit Hours)

- ECE 4311 - Senior Design I
- ECE 4312 - Senior Design II

Analytical Specialization (33 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- MATH 3304 - Introduction to Linear Algebra
- MATH 3315 - Introduction to Scientific Computing
- MATH 4325 - Introduction to Dynamical Systems

One course from the following:

- MATH 4315 - Advanced Scientific Computing
- MATH 4316 - Numerical Methods I
- MATH 4317 - Numerical Methods II
- MATH 4337 - Boundary Value Problems and Partial Differential Equations
- MATH 4339 - Functions of a Complex Variable
- MATH 6332 - Partial Differential Equations

One course from the following:

- ECE 5341 - Computational Neuroscience
- ECE 5356 - VLSI Design and Laboratory
- ECE 5357 - CAE Tools For Structured Digital Design
- ECE 5376 - Introduction to Computer Networks
- ECE 5377 - Embedded Wireless Design Laboratory
- ECE 5378 - Mobile Phone Embedded Design
- ECE 5379 - Optimization in Wireless Networks
- ECE 5381 - Computer Architecture
- CS 5385/ECE 5385 - Microcontroller Architecture and Interfacing
- ECE 5387 - Digital Systems Design

One course from the following:

- ECE 5310 - Introduction to Semiconductors
- ECE 5312 - Compound Semiconductor Devices and Processing
- ECE 5314 - Introduction to Microelectromechanical Systems
- ECE 5321 - Semiconductor Devices and Circuits
- ECE 5330 - Electromagnetics: Guided Waves
- ECE 5332 - Electromagnetics: Radiation and Antennas
- ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication

One course from the following:

- ECE 5345 - Topics in Applied Signal Analysis
- ECE 5351 - Power System Operation and Electricity Markets
- ECE 5352 - Power Systems Analysis
- ECE 5353 - Power System Planning
- ECE 5360 - Analog and Digital Control Systems
- ECE 5370 - Communication and Information Systems
- ECE 5371 - Analog and Digital Filter Design
- ECE 5373 - DSP Programming Laboratory
- ECE 5374 - Digital Image Processing
- ECE 5375 - Random Processes in Engineering

One course from the following:

- CS 2341 - Data Structures
- ECE 5365 - Adaptive Algorithms for Machine Learning
- 3 hours from a 5000-level advanced ECE elective course

Computer Engineering Specialization (27 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2341 - Data Structures
- CS 2353 - Discrete Computational Structures
- CS 3353 - Fundamentals of Algorithms
- CS 5385/ECE 5385 - Microcontroller Architecture and Interfacing

- ECE 5381 - Computer Architecture
- 3 hours from a 5000-level ECE course chosen with adviser's approval

One course from the following:

- CS 5343 - Operating Systems and Systems Software
- ECE 5357 - CAE Tools For Structured Digital Design
- ECE 5387 - Digital Systems Design

Engineering Leadership Specialization (27 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts

Three courses from the following:

- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship
- EMIS 2375 - Cultural and Ethical Implications of Technology
- EMIS 3308 - Engineering Management

One course from the following:

- ECE 5341 - Computational Neuroscience
- ECE 5356 - VLSI Design and Laboratory
- ECE 5357 - CAE Tools For Structured Digital Design
- ECE 5376 - Introduction to Computer Networks
- ECE 5377 - Embedded Wireless Design Laboratory
- ECE 5378 - Mobile Phone Embedded Design
- ECE 5379 - Optimization in Wireless Networks
- ECE 5381 - Computer Architecture
- CS 5385/ECE 5385 - Microcontroller Architecture and Interfacing
- ECE 5387 - Digital Systems Design

One course from the following:

- ECE 5310 - Introduction to Semiconductors
- ECE 5312 - Compound Semiconductor Devices and Processing
- ECE 5314 - Introduction to Microelectromechanical Systems
- ECE 5321 - Semiconductor Devices and Circuits
- ECE 5330 - Electromagnetics: Guided Waves
- ECE 5332 - Electromagnetics: Radiation and Antennas
- ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication

One course from the following:

- ECE 5345 - Topics in Applied Signal Analysis
- ECE 5351 - Power System Operation and Electricity Markets
- ECE 5352 - Power Systems Analysis
- ECE 5353 - Power System Planning
- ECE 5360 - Analog and Digital Control Systems
- ECE 5370 - Communication and Information Systems
- ECE 5371 - Analog and Digital Filter Design
- ECE 5373 - DSP Programming Laboratory
- ECE 5374 - Digital Image Processing
- ECE 5375 - Random Processes in Engineering

One course from the following:

- CS 2341 - Data Structures

- ECE 5365 - Adaptive Algorithms for Machine Learning

General Sequence Specialization (27 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- 3 hours from any 5000-level ECE courses listed below

One course from the following:

- EMIS 2375 - Cultural and Ethical Implications of Technology
- EMIS 3308 - Engineering Management
- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship

One course from the following:

- ME 2310 - Statics
- ME 2320 - Dynamics
- ME 2331 - Thermodynamics
- ME 2342 - Fluid Mechanics
- CS 2341 - Data Structures
- CS 2353 - Discrete Computational Structures
- any 5000-level ECE course approved by adviser

One course from the following:

- ECE 5341 - Computational Neuroscience
- ECE 5356 - VLSI Design and Laboratory
- ECE 5357 - CAE Tools For Structured Digital Design
- ECE 5376 - Introduction to Computer Networks
- ECE 5377 - Embedded Wireless Design Laboratory
- ECE 5378 - Mobile Phone Embedded Design
- ECE 5379 - Optimization in Wireless Networks
- ECE 5381 - Computer Architecture
- CS 5385/ECE 5385 - Microcontroller Architecture and Interfacing
- ECE 5387 - Digital Systems Design

One course from the following:

- ECE 5310 - Introduction to Semiconductors
- ECE 5312 - Compound Semiconductor Devices and Processing
- ECE 5313 - Solar Cells and Applications
- ECE 5314 - Introduction to Microelectromechanical Systems
- ECE 5321 - Semiconductor Devices and Circuits
- ECE 5330 - Electromagnetics: Guided Waves
- ECE 5332 - Electromagnetics: Radiation and Antennas
- ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication

One course from the following:

- ECE 5345 - Topics in Applied Signal Analysis
- ECE 5351 - Power System Operation and Electricity Markets
- ECE 5352 - Power Systems Analysis
- ECE 5353 - Power System Planning
- ECE 5360 - Analog and Digital Control Systems
- ECE 5370 - Communication and Information Systems
- ECE 5371 - Analog and Digital Filter Design
- ECE 5373 - DSP Programming Laboratory

- ECE 5374 - Digital Image Processing
- ECE 5375 - Random Processes in Engineering

One course from the following:

- CS 2341 - Data Structures
- ECE 5365 - Adaptive Algorithms for Machine Learning

Natural Science Specialization (32 Credit Hours)

- CS 1341 - Principles of Computer Science
- MATH 3304 - Introduction to Linear Algebra
- PHYS 3305 - Introduction to Modern Physics
- PHYS 3344 - Classical Mechanics
- PHYS 4311 - Laboratory Physics
- PHYS 4321 - Methods of Theoretical Physics
- PHYS 5337 - Introduction to Solid State Physics
- PHYS 5382 - Introduction to Quantum Mechanics

Select three courses from the following:

- ECE 5310 - Introduction to Semiconductors
- ECE 5312 - Compound Semiconductor Devices and Processing
- ECE 5314 - Introduction to Microelectromechanical Systems
- ECE 5321 - Semiconductor Devices and Circuits
- ECE 5330 - Electromagnetics: Guided Waves
- ECE 5332 - Electromagnetics: Radiation and Antennas
- ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication
- ECE 5345 - Topics in Applied Signal Analysis
- ECE 5356 - VLSI Design and Laboratory
- ECE 5357 - CAE Tools For Structured Digital Design
- ECE 5360 - Analog and Digital Control Systems
- ECE 5370 - Communication and Information Systems
- ECE 5371 - Analog and Digital Filter Design
- ECE 5373 - DSP Programming Laboratory
- ECE 5374 - Digital Image Processing
- ECE 5375 - Random Processes in Engineering
- ECE 5376 - Introduction to Computer Networks
- ECE 5377 - Embedded Wireless Design Laboratory
- ECE 5378 - Mobile Phone Embedded Design
- ECE 5381 - Computer Architecture
- ECE 5385 - Microcontroller Architecture and Interfacing
- ECE 5387 - Digital Systems Design

Smart Wireless and Embedded Systems Specialization (27 Credit Hours)

- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2353 - Discrete Computational Structures
- CS 3353 - Fundamentals of Algorithms
- CS 5385/ECE 5385 - Microcontroller Architecture and Interfacing
- ECE 5377 - Embedded Wireless Design Laboratory

Two courses from the following:

- ECE 5330 - Electromagnetics: Guided Waves
- ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication
- ECE 5357 - CAE Tools For Structured Digital Design

- ECE 5378 - Mobile Phone Embedded Design
- ECE 5379 - Optimization in Wireless Networks
- ECE 5381 - Computer Architecture
- ECE 5387 - Digital Systems Design

One course from the following:

- CS 2341 - Data Structures
- ECE 5365 - Adaptive Algorithms for Machine Learning

Total for the Major Only: 101-105 Credit Hours

Note: ECE 8000-level courses are primarily for graduate students but may be taken by highly qualified undergraduates with the approval of the adviser and the instructor. Special topics courses also are available.

Each student is expected to complete and file a plan of study with his or her academic adviser. The plan should state specific choices to meet the foregoing requirements and develop an area of concentration when concentration is desired.

Electrical Engineering, B.S.E.E. - Biomedical Track

The Department of Electrical and Computer Engineering offers a B.S.E.E. degree with a track in biomedical engineering. This program enables students to satisfy requirements for admission to medical school.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Biomedical Track

Mathematics and Science (53 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3313 - Ordinary Differential Equations

- MATH 3304 - Introduction to Linear Algebra
  or
- MATH 3308 - Introduction to Discrete Mathematics *(Credit will not be given for both CS 2353 and MATH 3308)*
  or
- MATH 3315 - Introduction to Scientific Computing
  or
- MATH 4325 - Introduction to Dynamical Systems

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Computer Science (3 Credit Hours)

- CS 1341 - Principles of Computer Science
  or
- CS 1342 - Programming Concepts

Core Electrical Engineering (27 Credit Hours)

- ECE 1350 - Introduction to Electrical and Computer Engineering

- ECE 2322 - Electronic Circuits I
- ECE 2122 - ECE Laboratory: Electronic Circuits I

- ECE 2350 - Circuit Analysis I

- ECE 2370 - Design and Analysis of Signals and Systems
- ECE 2170 - ECE Laboratory: Design and Analysis of Signals and Systems

- ECE 2381 - Digital Computer Logic
- ECE 3360 - Statistical Methods in Electrical and Computer Engineering
- ECE 3372 - Introduction to Signal Processing

- ECE 3381 - Microcontrollers and Embedded Systems
- ECE 3181 - ECE Laboratory: Microcontrollers and Embedded Systems

Junior Electrical Engineering Courses (6-7 Credit Hours)

Two from the following:

- ECE 3311 - Solid-State Devices
- ECE 3322 - Electronic Circuits II and EE 3122 - EE Laboratory: Electronic Circuits II
- ECE 3330 - Electromagnetic Fields and Waves
- ECE 3352 - Fundamentals of Electric Power Engineering

One from the following (3 Credit Hours):

- CS 2341 - Data Structures
- ECE 5365 - Adaptive Algorithms for Machine Learning

Advanced Electrical Engineering Electives (3 Credit Hours)
Any ECE 5000-level course approved by adviser

Biomedical Engineering (6 Credit Hours)
- ECE 5340 - Medical Systems Designs
- ECE 5345 - Topics in Applied Signal Analysis

Senior Design Sequence (6 Credit Hours)
- ECE 4311 - Senior Design I
- ECE 4312 - Senior Design II

Total for the Major Only: 107-108 Credit Hours

Computer Engineering Minor
A student majoring in computer science may not minor in computer engineering.

Requirements for the Minor
The following computer engineering courses are required:
- CS 1341 - Principles of Computer Science
- CS 1342 - Programming Concepts
- CS 2240 - Assembly Language Programming and Machine Organization
- CS 2341 - Data Structures
- CS 2353 - Discrete Computational Structures
- CS 3381 - Digital Logic Design

Total: 17 Credit Hours

Electrical Engineering Minor
For information on a minor in electrical engineering, the student should consult the department.

Requirements for the Minor
- ECE 2322 - Electronic Circuits I
- ECE 3322 - Electronic Circuits II
- ECE 2350 - Circuit Analysis I
- ECE 2370 - Design and Analysis of Signals and Systems
- Six credit hours of elective electrical engineering courses at the 3000 level or above

Total: 18 Credit Hours

Electrical and Computer Engineering Courses
The third digit in a course number designator represents the subject area of the course. The following designators are used:
XX1X Electronic Materials
XX2X Electronic Devices
XX3X Quantum Electronics and Electromagnetic Theory
XX4X Biomedical Science
XX5X Network Theory and Circuits
XX6X Systems
XX7X Information Science and Communication Theory

XX8X Computers and Digital Systems
XX9X Individual Instruction, Research, Seminar and Special Project

ECE 1301 - Modern Electronic Technology
Credits: 3
A lecture and laboratory course examining a number of topics of general interest, including the fundamentals of electricity, household electricity and electrical safety, an overview of microelectronics, concepts of frequency and spectrum, the phonograph and the compact disc, bar codes, and communication by radio and TV. Designed for nontechnical students who want to be more knowledgeable. Not open to ECE majors.

ECE 1350 - Introduction to Electrical and Computer Engineering
Credits: 3
Introduces contemporary electrical and electronic devices, concepts, and systems. Includes principles of engineering design; electrical components and systems such as generators, motors, relays, transistors, and integrated circuits; physical laws; signals and systems for audio and images; signal conversion and manipulation; digital logic; binary representation and coding; radio transmission; and electrical power.

ECE 2122 - ECE Laboratory: Electronic Circuits I
Credits: 1
Experimental study of basic MOS and bipolar transistors in analog and digital applications. Logic gates and linear and nonlinear applications of operational amplifiers. Prerequisite: C- or better in ECE 2350. Corequisite: ECE 2322.

ECE 2170 - ECE Laboratory: Design and Analysis of Signals and Systems
Credits: 1
Introduces various techniques for analyzing real signals and designing various linear time-invariant systems. Incorporates software-based simulations and actual circuit implementations, and uses Web authoring tools for the production of multimedia lab reports. Prerequisite: CS 1341. Corequisite: ECE 2370.

ECE 2190 - Sophomore Project
Credits: 1

ECE 2290 - Sophomore Project
Credits: 2

ECE 2322 - Electronic Circuits I
Credits: 3
Introduces nonlinear devices used in electronic circuits. Covers the DC and AC analysis of circuits employing diodes, bipolar junction transistors, and MOSFETs. Topics include device I-V characteristics, biasing, transfer characteristic, gain, power dissipation, and the design of amplifier circuits and logic circuits. Also, introduces SPICE simulation for DC and transient simulations. Prerequisite: C- or better in ECE 2350. Corequisite: ECE 2122.

ECE 2350 - Circuit Analysis I
Credits: 3
Analysis of resistive electrical circuits, basic theorems governing electrical circuits, power consideration, analysis of circuits with energy storage elements, and transient and sinusoidal steady–state analysis of circuits with inductors and capacitors. Corequisites: MATH 3313, PHYS 1304.

ECE 2370 - Design and Analysis of Signals and Systems
Credits: 3
Introduces standard mathematical tools for analyzing and designing various continuous-time signals and systems. Studies frequency domain design and analysis techniques, the Fourier and Laplace transforms, and applications such as modulation and demodulation in communications and processing of audio signals. Prerequisites: MATH 3313, C- or better in ECE 2350. Corequisite: ECE 2170.

ECE 2381 - Digital Computer Logic
Credits: 3
Covers digital computers and information, combinational logic circuits, combinational logic design, sequential

circuits (e.g., finite–state machines), registers and counters, and memory and programmed logic design. Studies design and simulation of digital computer logic circuits.

ECE 2390 - Sophomore Project
Credits: 3

ECE 3122 - ECE Laboratory: Electronic Circuits II
Credits: 1
Experiments in analog electronic circuit design. Prerequisites: C- or better in ECE 2122, ECE 2322. Corequisite: ECE 3322.

ECE 3181 - ECE Laboratory: Microcontrollers and Embedded Systems
Credits: 1
Fundamentals of microprocessor design, assembly language programming, and embedded system implementation. Students study a widely used family of microprocessors for microcontroller-based system design, assembly-level programming, and hardware interfacing. Prerequisites: C- or better in ECE 2181, ECE 2381. Corequisite: ECE 3381.

ECE 3190 - Junior Project
Credits: 1

ECE 3290 - Junior Project
Credits: 2

ECE 3311 - Solid-State Devices
Credits: 3
A laboratory-oriented elective course that introduces the working principles of semiconductor devices by fabricating and testing silicon MOSFET transistors and III-V based semiconductor lasers in the SMU cleanroom. Lectures explain the basic operation of diodes, bipolar transistors, field effect transistors, light-emitting diodes, semiconductor lasers, and other photonic devices. Additional lectures discuss the basics of device processing, which include photolithography, oxidation, diffusion, ion-implantation, metalization, and etching. Laboratory reports describing the fabrication and testing of devices account for a major portion of the course grade. Prerequisites: CHEM 1303, C- or better in ECE 2350.

ECE 3322 - Electronic Circuits II
Credits: 3
Introduction to MOSFET analog electronic circuits. Provides a background for understanding modern electronic circuits such as digital-to-analog and analog-to-digital converters, active filters, switched-capacitor circuits, and phase-locked loops. Topics include MOSFET SPICE models, basic MOSFET, single-stage amplifiers, current-mirrors, differential amplifier stages, source-follower buffer stages, high-gain common-source stages, operational amplifier, frequency response, and negative feedback. Prerequisites: C- or better in ECE 2122, ECE 2322, and ECE 2350. Corequisite: ECE 3122.

ECE 3330 - Electromagnetic Fields and Waves
Credits: 3
Vector analysis applied to static electric and magnetic fields, development of Maxwell's equations, elementary boundary-value problems, and determination of capacity and inductance. Introduction to time-varying fields, plane waves, and transmission lines. Prerequisites: ECE 2350, MATH 3302.

ECE 3352 - Fundamentals of Electric Power Engineering
Credits: 3
Introduction to electric power generation and distribution. Topics include energy resources such as fossil, hydraulic, wind, solar, and nuclear energies. Also, three-phase power generators and transformers, and electric machines such as induction motors, synchronous generators, DC and stepper motors, and power converters. Prerequisite: ECE 2350 or permission of instructor.

ECE 3360 - Statistical Methods in Electrical and Computer Engineering
Credits: 3
An introduction to probability, elementary statistics, and random processes. Topics include fundamental concepts of probability, random variables, probability distributions, sampling, estimation, elementary hypothesis testing, basic random processes, stationarity, correlation functions, power-spectral-density functions, and the effect of linear systems on such processes. Prerequisites: C- or better in ECE 2170, ECE 2370.

ECE 3372 - Introduction to Signal Processing
Credits: 3
Gives juniors a thorough understanding of the techniques needed for the analysis of discrete-time systems. Topics include Fourier methods and Z transform techniques, discrete Fourier transform, fast Fourier transform and applications, and digital filters. Prerequisites: C- or better in ECE 2170, ECE 2370.

ECE 3381 - Microcontrollers and Embedded Systems
Credits: 3
An introduction to microcontrollers and embedded systems. Students study a widely used family of microprocessors as an introduction to architecture, software, and interfacing concepts. Topics include number systems and arithmetic operations for computers, assembly and C language programming, microprocessor organization and operation, memory and I/O port interfacing, and microprocessor-based controller design. Students write, assemble, and execute embedded programs designed for various applications. Prerequisites: C- or better in ECE 2381. Corequisite: ECE 3181.

ECE 3382 - Digital Computer Design
Credits: 3
Discusses machine organization, instruction set architecture design, memory design, control design, hardwired control and microprogrammed control, algorithms for computer arithmetic, microprocessors, and pipelining. Prerequisite: C- or better in CS 3381 or ECE 2381.

ECE 3390 - Junior Project
Credits: 3

ECE 4090 - Senior Project
Credits: 0

ECE 4096 - Senior Thesis
Credits: 0
Prerequisite: Admission to the departmental distinction program.

ECE 4196 - Senior Thesis
Credits: 1
Prerequisite: Admission to the departmental distinction program.

ECE 4296 - Senior Thesis
Credits: 2
Prerequisite: Admission to the departmental distinction program.

ECE 4311 - Senior Design I
Credits: 3
Areas covered are tailored to the student's area of specialization. The student chooses a specific senior design project in electrical engineering from the available projects proposed by the faculty. Depending upon the specifics of the project, each student designs, constructs, and tests a solution and then submits a formal report to the faculty in charge of the project. Prerequisites: ECE 2322, ECE 3381 and ECE senior standing.

ECE 4312 - Senior Design II
Credits: 3
Areas covered are tailored to the student's area of specialization. The design project selected may be a continuation of the project undertaken in ECE 4311, a new project selected from the list of available projects offered by the

faculty, or a project proposed by the student and approved by the faculty. Depending upon the specifics of the project, a team designs, constructs, and tests a solution and then submits a formal report to the faculty in charge of the project. Prerequisite: ECE 4311.

ECE 4396 - Senior Thesis
Credits: 3
Prerequisite: Admission to the departmental distinction program.

ECE 5050 - Undergraduate Industrial Internship
Credits: 0
Represents a term of industrial work experience for noncooperative education students. Designates a student as full time for the term but carries no academic credit. Students register for the course in the same manner as for other SMU courses except that no tuition is charged. The course grade is determined by the grading of a written report by the student's adviser at the end of the term.

ECE 5176 - Network Simulation Laboratory
Credits: 1
An introductory, hands–on course in simulations of computer networks intended to be taken simultaneously with ECE 5376 or other networks courses. Lab exercises use OPNET and other simulation software to visualize network protocols and performance. Students run a number of simulation exercises, which are designed to complement classroom instruction, to set up various network models, specify protocols, and collect statistics on network performance. General familiarity with PCs is recommended. Corequisites: ECE 5376 and senior standing.

ECE 5190 - Special Topics
Credits: 1
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5290 - Special Topics
Credits: 2
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5310 - Introduction to Semiconductors
Credits: 3
Studies the basic principles in physics and chemistry of semiconductors that have direct applications on device operation and fabrication. Topics include basic semiconductor properties, elements of quantum mechanics, energy band theory, equilibrium carrier statistics, carrier transport, and generation-recombination processes. Applies these physical principles to semiconductor devices. Devices studied include metal-semiconductor junctions, p n junctions, LEDs, semiconductor lasers, bipolar junction transistor, field-effect transistors, and integrated circuits. Emphasizes obtaining the governing equations of device operation based on physical properties. Prerequisite: ECE 3311.

ECE 5312 - Compound Semiconductor Devices and Processing
Credits: 3
This laboratory-oriented elective course for upper-level undergraduates and graduate students provides in-depth coverage of processing of InP- and GaAs-based devices in addition to silicon integrated circuit processing. Students without fabrication experience fabricate and characterize MOSFETs and semiconductor lasers. Students with some previous fabrication experience (such as ECE 3311) fabricate and test an advanced device mutually agreed upon by the student(s) and instructor. Examples of such devices include high electron mobility transistors, heterojunction bipolar transistors, phase shifters, distributed Bragg reflector lasers, grating-assisted directional couplers, and semiconductor lasers from developing materials such as GaInNAs. The governing equations of photolithography, oxidation, diffusion, ion-implantation, metallization, and etching are derived from fundamental concepts. Silicon process modeling uses the CAD tool SUPREM. Optical components modeling uses the SMU-developed software WAVEGUIDE, GAIN, and GRATING. Includes peer review before final submission of a laboratory report describing the projects. Prerequisite: ECE 3311 or equivalent.

ECE 5313 - Solar Cells and Applications
Credits: 3
This laboratory-oriented course explores the sun's energy as a source of electrical power and the working principles of silicon and III-V solar cells. Covers characteristics of the sun, semiconductor properties, p n junctions, solar cell fabrication, and photovoltaic system design. Students fabricate and test silicon solar cells in the SMU cleanroom. Lectures and class discussions explain the basic operation of p-n junction diodes and solar cells along with the basics of device processing, including photolithography, oxidation, diffusion, ion implantation, metallization, and etching. Prerequisite: ECE 3311 or permission of instructor.

ECE 5314 - Introduction to Microelectromechanical Systems
Credits: 3
Develops the basics for MEMS, including microactuators, microsensors, and micromotors; principles of operation; micromachining techniques (surface and bulk micromachining), IC-derived microfabrication techniques; and thin lm technologies as they apply to MEMS. Prerequisite: ECE 3311.

ECE 5321 - Semiconductor Devices and Circuits
Credits: 3
A study of the basics of CMOS integrated analog circuits design. Topics include MOSFET transistor characteristics, DC biasing, small-signal models, different amplifiers, current mirrors, single- and multi-stage electronic amplifiers, frequency response of electronic amplifiers, amplifiers with negative feedback, and stability of amplifiers. Each student completes one or more design projects by the end of the course. Prerequisites: ECE 3122, ECE 3322.

ECE 5330 - Electromagnetics: Guided Waves
Credits: 3
Application of Maxwell's equations to guided waves. Transmission lines, plane wave propagation and reflection, hollow waveguides, dielectric waveguides, fiber optics, and cavity and dielectric resonators. Prerequisite: ECE 3330.

ECE 5332 - Electromagnetics: Radiation and Antennas
Credits: 3
Covers polarization, reflection, refraction, and diffraction of EM waves; dipole, loop, slot and reflector antennas; array analysis and synthesis; self and mutual impedance; and radiation resistance. Prerequisite: ECE 3330.

ECE 5333 - Antennas and Radio Wave Propagation for Personal Communication
Credits: 3
Covers three important aspects of telecommunications: fixed site antennas, radio wave propagation, and small antennas proximate to the body. Topics include electromagnetics fundamentals; general definitions of antenna characteristics; electromagnetic theorems for antenna applications; various antennas for cellular communications, including loop, dipole, and patch antennas; wave propagation characteristics as in earth satellite communications, radio test sites, urban and suburban paths, and multipath propagation; and radio communication systems. Prerequisite: ECE 3330.

ECE 5336 - Introduction to Integrated Photonics
Credits: 3
Covers the issues of integrated photonics, fundamental principles of electromagnetic theory, waveguides, simulation of waveguide modes, and photonic structures, with a focus on optical waveguides and numerical simulation techniques because advances in optical communications will be based on nanostructure waveguides coupled with new materials. Topics include Maxwell's equations; slab, step index, and rectangular and graded index wave guides. Also, dispersion, attenuations, nonlinear effects, numerical methods, coupled mode theory, and extensive use of mathematical packages such as MATLAB and Mathematica. Prerequisites: C- or better in ECE 3311, ECE 3330 or permission of instructor.

ECE 5339 - Computer System Security
Credits: 3
Students investigate a broad selection of contemporary issues in computer security, including an assessment of state-of-the-art technology used to address security problems. Topics include sources for computer security threats and appropriate reactions, basic encryption and decryption, secure encryption systems, program security, trusted

operating systems, database security, network and distributed systems security, administering security, and legal and ethical issues. Prerequisite: CS 5343.

ECE 5340 - Medical Systems Designs
Credits: 3
Focuses on the principles of sensing biological signals and their applications in medicine. Main topics include electrical and mechanical signal transduction principles, electrophysiology and electrochemistry, measurement methods and biomedical instrumentation. Prerequisites: Fundamental knowledge in physics and chemistry.

ECE 5341 - Computational Neuroscience
Credits: 3
Computational (theoretical) neuroscience is a multidisciplinary field that seeks to understand information processing in biological neural systems using mathematical models and principles. The field draws on foundations from systems theory, signal processing, and information theory to derive models that describe the functionality of biological neural systems, including encoding/decoding of information, learning, and memory.

ECE 5342 - Principles of Medical Imaging
Credits: 3
An introduction to the physics and engineering of medical imaging technologies. It is offered at an introductory level and assumes no prior contact with the material. Covers imaging modalities of radiography (X-ray), computed tomography (CT), nuclear medicine (PET & SPECT), ultrasound (US), and magnetic resonance imaging (MRI), as well as extensions of these techniques. Focuses on the underlying physics of each modality, creation and detection of signals, signal processing, and image analysis. Prerequisites: PHYS 1304 or equivalent, MATH 3313 or equivalent.

ECE 5345 - Topics in Applied Signal Analysis
Credits: 3
Looks at the analysis of discrete-time medical signals and images. Topics include the design of discrete-time filters, medical imaging and tomography, signal and image compression, and spectrum estimation. The course project explores the application of these techniques to actual medical data. Prerequisite: ECE 3372.

ECE 5346 - Cloud Computing
Credits: 3
Explores architectures for cloud computing and provides hands-on experience with virtualization technologies. Topics include cloud computing architectures such as infrastructure as a service, platform as a service, and software as a service. Covers programming models for cloud computing, the fundamentals of virtualization technologies that enable scalability, and an introduction to the security and energy efficiency challenges of cloud computing. Prerequisite: CS 4381 or ECE 3382.

ECE 5349 - Data and Network Security
Credits: 3
Covers conventional and state-of-the-art methods for achieving data and network security. Private key and public key encryption approaches are discussed in detail, with coverage of popular algorithms such as DES, Blowfish, and RSA. In the network security area, the course covers authentication protocols, IP security, Web security, and system-level security. Prerequisite: C- or better in CS 4344.

ECE 5351 - Power System Operation and Electricity Markets
Credits: 3
An overview of power generation systems, economic operation of power systems, and electricity market operation. Introduces mathematical optimization methods used to solve practical problems in power system operation addressing economic and technical aspects of power generation and transmission. Topics include power generation characteristics; economic dispatch; unit commitment and proposed solution methodologies; the effect of transmission systems on unit commitment and economic dispatch of power systems; restructuring in power systems; power pools and bilateral contracts; pricing in electricity markets; day-ahead, real-time, and ancillary service

markets; financial transmission rights; competition between market participants; congestion management; and demand response.

ECE 5352 - Power Systems Analysis
Credits: 3
Provides an overview of the power systems, including complex power calculation; theory of balanced three-phase circuits; per-unit system; transmission line characteristics for short, medium, and long lines; power flow analysis; three-phase balance fault; unbalanced fault and sequence impendences; and transient stability analysis in power systems. Prerequisites: Basic knowledge of electric power systems, fundamentals of electric power engineering (ECE 3352) or equivalent.

ECE 5353 - Power System Planning
Credits: 3
Overview of power system planning, including basics of restructuring in power systems, reliability analysis in power systems, long-term demand forecast, power system production simulation, introduction to stochastic programming, midterm maintenance scheduling, mathematical model for generation expansion planning, transmission expansion planning, coordinated expansion planning, and other practices, such as transmission switching and demand response, which affect the expansion planning. Prerequisite: ECE 5352/ECE 7352, ECE 3352, or permission of instructor.

ECE 5354 - Biomechatronics
Credits: 3
Introduces the field of biomechatronics, an applied interdisciplinary science that merges concepts from physiology, biomechanics, and neuroscience with the fields of mechanics, electronics, and robotics. Describes the most commonly used sensors, actuators, feedback control systems, and signal-processing techniques applied to biomedical applications. Discusses the inventions that are transforming the fields of biomechatronics and biomedical engineering.

ECE 5356 - VLSI Design and Laboratory
Credits: 3
Explores the design aspects involved in the realization of CMOS integrated circuits from device up to the register subsystem level. Addresses major design methodologies, with emphasis placed on structured, full-custom design. Also, the MOS device, CMOS inverter static characteristics, CMOS inverter dynamic characteristics, CMOS transistor fabrication technology, combination logic circuit, alternative static logic circuit, sequential logic circuit, dynamic logic circuit, propagation delay and interconnect, power dissipation and design for low power, memory device (DRAM, SRAM, ROM), electrostatic discharge protection, packaging, testing, and VLSI design flow. Students use state-of-the-art CAD tools to verify designs and develop efficient circuit layouts. Prerequisites: C- or better in ECE 2181 , ECE 2322, ECE 2381.

ECE 5357 - CAE Tools For Structured Digital Design
Credits: 3
Concentrates on the use of CAE tools for the design and simulation of complex digital systems. Discusses and uses Verilog hardware description language for behavioral and structural hardware modeling. Emphasizes structured modeling and design. Design case studies include a pipelined processor, cache memory, UART, and a floppy disk controller. Prerequisites: C- or better in ECE 2381 and junior standing, or permission of instructor.

ECE 5360 - Analog and Digital Control Systems
Credits: 3
Feedback control of linear continuous and digital systems in the time and frequency domain. Topics include plant representation, frequency response, stability, root locus, linear state variable feedback, and design of compensators. Prerequisite: ECE 3372.

ECE 5365 - Adaptive Algorithms for Machine Learning
Credits: 3
Explains what an adaptive algorithms is, how it is used to solve problems in the processing of measurements and/or

data, how it works, and some of the possible design choices. Includes both supervised and unsupervised learning. Discusses derivation, description, and implementation of various machine learning algorithms for estimation, feature extraction and filtering, and classification. Prerequisites: MATH 3304/MATH 3353 or equivalent linear algebra and probability and statistics to the level of ECE 3360, CS 4340, EMIS 3340, STAT 4340, or STAT 4341 , or instructor consent.

ECE 5369 - Trojan Detection and Hardware Security
Credits: 3
Introduces several contemporary topics in hardware security, with a particular emphasis on hardware Trojans. Other topics include physically unclonable functions, the problem of counterfeiting, security implications of design for testability in hardware, intellectual property protection, and secure coprocessors and smart cards. Prerequisite: C or better in CS 3381 or ECE 2381 or equivalent.

ECE 5370 - Communication and Information Systems
Credits: 3
An introduction to communication in modulation systems in discrete and continuous time, information content of signals, and the transition of signals in the presence of noise. Also, amplitude, frequency, phase and pulse modulation, and time and frequency division multiplexing. Prerequisites: ECE 3360 and ECE 3372.

ECE 5371 - Analog and Digital Filter Design
Credits: 3
Covers approximation and analog design of Butterworth, Chebyshev, and Bessel filters; basic frequency transformations for designing low-pass, band-pass, band-reject, and high-pass filters; concept of IIR digital filters using impulse-invariant and bilinear transformations; design of FIR digital filters using frequency sampling and window methods; canonical realization of IIR and FIR digital filters; wave digital filters; and an introduction to two-dimensional filters. Corequisite: ECE 3372.

ECE 5373 - DSP Programming Laboratory
Credits: 3
Utilizes a hands-on approach that focuses on the essentials of programming digital signal processors (programmable semiconductor devices used extensively in digital cellular phones, high-density disk drives, and high-speed modems) while minimizing signal processing theory. Focuses on programming the Texas Instruments TMS320C50, a fixed-point processor. Emphasizes assembly language programming, and Topics include implementation of FIR and IIR filters, the FFT, and a real-time spectrum analyzer. Recommended: Basic knowledge of discrete-time signals and digital logic systems. Prerequisite: ECE 3372.

ECE 5374 - Digital Image Processing
Credits: 3
Introduces the basic concepts and techniques of digital image processing. Topics include characterization and representation of images, image enhancement, image restoration, image analysis, image coding, and reconstruction. Prerequisite: ECE 5345.

ECE 5375 - Random Processes in Engineering
Credits: 3
An introduction to probability and stochastic processes as used in communication and control. Topics include probability theory, random variables, expected values and moments, multivariate Gaussian distributions, stochastic processes, autocorrelation and power spectral densities, and an introduction to estimation and queuing theory. Prerequisite: ECE 3360.

ECE 5376 - Introduction to Computer Networks
Credits: 3
Surveys basic topics in communication networks, with an emphasis on layered protocols and their design. Topics include OSI protocol reference model, data link protocols, local area networks, routing, congestion control, network management, security, and transport layer protocols. Network technologies include telephony, cellular, Ethernet,

Internet protocol, TCP, and ATM. Assignments may include lab exercises involving computer simulations. Corequisites: ECE 5176 and senior standing.

ECE 5377 - Embedded Wireless Design Laboratory
Credits: 3
A wide variety of real-world experiences in wireless communications and networking using FPGAs equipped with embedded microprocessors. Covers basic wireless concepts of scheduled and random access as well as modulation and power control via labs that enable implementation of cellular and 802.11-based wireless protocols such as TDMA, Aloha, CSMA, and CSMA/CA. Also, broader topics such as embedded programming, interrupt-driven operation, and FPGA-based design. In a course project, student teams design novel wireless protocols and carry out experiments to measure the performance. Prerequisite: C- or better in ECE 3360 or equivalent, or permission of instructor.

ECE 5378 - Mobile Phone Embedded Design
Credits: 3
Students learn to develop embedded software for the most widely used smartphone platforms, with emphasis on wireless and sensing applications. Topics include user interface design such as multitouch and basic HCI design tenets, storing and fetching data with local networked systems and databases, localization via GPS and wireless signal triangulation, sensing environmental and user characteristics, networking with various wireless protocols, graphics rendering, multimedia streaming, and designing for performance (e.g., controlling memory leaks, object allocation, and multithreading). Draws from various fields, including wireless communications and networking, embedded programming, and computer architecture.

ECE 5379 - Optimization in Wireless Networks
Credits: 3
Covers a wide variety of optimization problems in the design and operation of wireless networks. Introduces basic linear programming and integer linear programming concepts and explains these concepts using examples from wired and wireless networks. Also, the basic structure and design of various wireless networks, including cellular networks (such as GSM) and wireless LANs (e.g., those based on 802.11g/n). Prerequisite: ECE 2170 or equivalent, or permission of instructor.

ECE 5381 - Computer Architecture
Credits: 3
Introduces the state of the art in uniprocessor computer architecture, with a focus on the quantitative analysis and cost-performance trade-offs in instruction set, pipeline, and memory design. Topics include quantitative analysis of performance and hardware costs, instruction set design, pipeline, delayed branch, memory organization, and advanced instruction-level parallelism. Prerequisites: C- or better in CS 4381 or ECE 3382.

ECE 5382 - Fundamentals of Computer Vision
Credits: 3
Introduces students to topics fundamental to computer vision including the physics and geometry of image formation, feature detection and matching, 3D acquisition, and time permitting one or more of these topics: image motion estimation and tracking, image segmentation, image classification and recognition. The homework assignments and the exams involve a substantial amount of programming in MATLAB and OpenCV. Preferred: ECE 3372 and ECE 3360. Prerequisites: MATH 3304 and CS 1341/CS 2341, or equivalent.

ECE 5383 - Introduction to Quantum Informatics
Credits: 3
Quantum Informatics is the discipline concerned with methods to communicate, to sense, and to transform data represented in a unique way based on the properties of quantum mechanics. While the concept of quantum informatics is not new, the emergence and availability of useable technology is becoming more common. This class is designed to introduce engineering and computer science students to these topics as well as to provide a well-grounded introduction to implementation technology. No prior knowledge of quantum mechanics or quantum informatics is required for this class. Prerequisite: ECE 3381 or equivalent, introduction to undergraduate-level linear algebra, undergraduate university physics sequence, or consent of instructor.

ECE 5385 - Microcontroller Architecture and Interfacing
Credits: 3
Emphasizes the design of embedded systems using microcontrollers. Briefly reviews microcontroller architecture. Includes hierarchical memory systems and interfacing of memory and peripherals, industry standard bus interfaces and other applicable standards, and topics in real-time operating systems and system-level design considerations. The corequisite laboratory requires students to develop software using assembler and high-level languages. Prerequisite: CS 3381 or ECE 3181, ECE 3381.

ECE 5387 - Digital Systems Design
Credits: 3
Modern topics in digital systems design, including the use of HDLs for circuit specification and automated synthesis tools for realization. Programmable logic devices are emphasized and used throughout the course. Includes heavy laboratory assignment content and a design project. Prerequisite: C- or better in ECE 2381 or in CS 3381.

ECE 5390 - Special Topics
Credits: 3
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5391 - Special Topics
Credits: 3
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5392 - Special Topics
Credits: 3
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5393 - Special Topics
Credits: 3
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5395 - Special Topics
Credits: 3
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

ECE 5490 - Special Topics
Credits: 4
This special topics course must have a section number associated with a faculty member. The department offers special topics courses with a range of credit hours; the last digit in the course number represents courses with different topics.

Mechanical Engineering

Professor Paul S. Krueger, **Chair**

Professors: Ali Beşkök, Xin-Lin Gao, Yildirim Hürmüzlü, MinJun Kim, Paul S. Krueger, José L. Lage, Elizabeth G. Loboa, M. Volkan Otugen, Peter E. Raad, Wei Tong
Associate Professors: Xu Nie, Edmond Richer, David A. Willis (Associate Chair)
Senior Lecturers: Elena V. Borzova
Clinical Assistant Professor: Sheila Williams
Professor of Practice: Steven Lerner, James R. Webb
Adjunct Faculty: Phillip Andres, Bogdan V. Antohe, Eric B. Cluff, Christopher Colaw, Levent Kaan, FanRong Kong, M. Wade Meaders, David J. Nowacki, Greg Radighieri, Matt Saari, Mohammed Sayeed, Peter Sorenson, Allen D. Tilley, Andrew K. Weaver, James C. Wilt

General Information

Mechanical engineering is a diverse, dynamic and exciting field. Mechanical engineers have wide-ranging technical backgrounds and a high potential for employment with mobility and professional growth. They apply creative knowledge to solve critical problems in many areas, including bioengineering (e.g., drug delivery and artificial organs), construction, design and manufacturing, electronics, energy (e.g., production, distribution and conservation), maintenance (individual machinery and complex installations), materials processing, medicine (diagnosis and therapy), national security and defense, packaging, pollution mitigation and control, robotics and automation, sensors, small-scale devices, and all aspects of transportation, (e.g., space travel and exploration).

The Mechanical Engineering Department at SMU has a long tradition of offering a superb engineering education within an environment fostering creativity and innovation. Small classes not only provide for strong mentoring but also help achieve academic excellence through cooperation and teamwork. Leading by example, through encouragement and dedication, the faculty is committed to the success of every student. In addition to offering introductory and advanced courses in their areas of specialization, faculty members teach courses that address the critical issues of technology and society.

The program prepares students by providing a solid background in fundamentals of science and engineering without compromising the practical aspects of mechanical engineering. Essential entrepreneurial know-how, interpersonal skills and the importance of lifelong learning complement the educational experience of students. The department stimulates professional and social leadership by providing, among others, opportunities for students to participate in the SMU Student Section of the American Society of Mechanical Engineers and in the SMU Tau-Sigma Chapter of Pi-Tau-Sigma, the National Honorary Mechanical Engineering Fraternity.

The curriculum consists of three major areas: thermofluids; dynamics and controls; and solid mechanics, materials and manufacturing. Practical mechanical engineering design is interlaced throughout the curriculum. Students may specialize in one of the three areas, which will provide them with more in-depth learning in one of the three areas while still completing a breadth of courses in mechanical engineering. In the senior year, students participate in a capstone design activity, one option for which involves complete product design from concept to construction to testing, with support from industries, foundations and volunteer professionals. State-of-the-art software, computers and laboratory equipment support the high-quality education provided to students. Undergraduate students are encouraged to participate in research projects conducted by faculty and to consider extending their studies to include graduate work in mechanical engineering at SMU or elsewhere.

In combination with a solid liberal arts foundation, the program prepares students for graduate studies not only in engineering but also in other professional fields such as business, medicine and law. SMU mechanical engineering graduates have found success in graduate school and in employment, and regularly attain graduate degrees in engineering, medicine, business and law. Graduates are employed as engineers or consulting engineers for major engineering, pharmaceutical, environmental, financial, banking and real estate companies.

The undergraduate program in mechanical engineering is accredited by the Engineering Accreditation Commission of ABET, https://www.abet.org.

The program's mission is to educate mechanical engineers who are innovative, entrepreneurial and equipped to become global leaders in research and technology. Specific educational objectives of the mechanical engineering undergraduate program are to produce graduates who meet the following:

1. The ability to be innovative problem solvers and critical thinkers addressing technical and societal issues.
2. The ability to embrace professional development and lifelong learning relevant to their careers.
3. The ability to have entrepreneurial and leadership roles in industry, government and academia.

The Mechanical Engineering Undergraduate Program Outcomes and their relationships to the discipline-specific criteria are as follows:

1. An ability to identify, formulate, and solve complex engineering problems by applying principles of engineering, science, and mathematics.
2. An ability to apply engineering design to produce solutions that meet specified needs with consideration of public health, safety, and welfare, as well as global, cultural, social, environmental, and economic factors.
3. An ability to communicate effectively with a range of audiences.
4. An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
5. An ability to function effectively on a team whose members together provide leadership, create a collaborative and inclusive environment, establish goals, plan tasks, and meet objectives.
6. An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
7. An ability to acquire and apply new knowledge as needed, using appropriate learning strategies.

An outstanding cooperative education program is also available for students. For further information on the SMU Co-op Program, students should see Cooperative Education at the beginning of the Lyle School of Engineering section.

The Mechanical Engineering Department offers the following undergraduate degrees with three available options:

Bachelor of Science With a Major in Mechanical Engineering (with a distributed track or a specialization)
Bachelor of Science With a Major in Mechanical Engineering (with a premedical/biomedical track)
Bachelor of Science With a Major in Mechanical Engineering (with an engineering management and entrepreneurship track)

Students may pursue a second degree program in math or physics. Students wishing to obtain a second degree in mathematics or physics should contact the respective departments to discuss the requirements.

In addition, a minor in mechanical engineering is available to interested students.

Departmental Facilities

In support of the teaching and research endeavors of the department, several research laboratories are available.

The **Additive Manufacturing, Robotics and Automation Laboratory (LAMRA)**, established in 2013, is dedicated to the exploration and development of novel, advanced 3-D printing processes. LAMRA also pursues research in soft robotics and medical and service robotics/automation technologies.

The **Biological Actuation, Sensing and Transport Laboratory** research program can be broadly categorized into three core subject areas: micro/nanorobotics, single cell/single molecule biophysics, and transport phenomena. Although each core program consists of a distinct project, the research team emphasizes their synergistic nature — advances in one core are expected to drive the development of the others. The unifying component of all the cores is "biologically inspired nano/micro engineering."

The **Biomedical Instrumentation and Robotics Laboratory** research activities promote strong interdisciplinary collaboration between several branches of engineering and biomedical sciences. These activities touch upon fundamentals in analytical dynamics, nonlinear control of mechanical systems, computer-aided design and virtual prototyping, applied mathematics, data acquisition, signal processing and high-performance actuators.

The **Bio-Microfluidics Laboratory** is where researchers design, build and test Lab-on-a-Chip devices for biomedical, environmental monitoring, and food/water safety applications. The laboratory also performs numerical simulations of mass momentum and energy transport in micro and nano-scales, using continuum-based and atomistic methods.

The **Experimental Fluid Mechanics Laboratory** research areas include experimental quantification and evaluation of unsteady fluid flow processes, including vortex formation, vortex boundary interactions, and aquatic locomotion. A variety of two-dimensional and three-dimensional full-field flow measurement techniques are employed.

The **Impact Mechanics Laboratory** research focus areas include: experimental solid mechanics, impact mechanics, dynamic behavior of materials and structures, novel Kolsky bar-based high-strain rate characterization techniques, dynamic fracture and failure of brittle materials, soft materials and tissues, vehicle and body armors, non-destructive damage characterization in heterogeneous materials, and X-ray computed micro-tomography.

The **Porous Media Systems Laboratory** focuses on the design of morphing heat exchangers, heat transfer enhancement and transport in porous media.

The **Laser Micromachining Laboratory** studies thermal-based laser micro- and nano-processing, with an emphasis on heat transfer, phase change, and fluid flow occurring during these processes. Specific research areas include short pulse laser ablation and micromachining including explosive phase change, vaporization, and Marangoni flows; applications of laser micromachining to electronic and photonic device fabrication; laser-assisted fabrication of superhydrophobic surfaces, microfluidics, and biomedical devices; fabrication of nanoparticles using pulsed laser ablation in liquids (PLAL); laser-induced forward transfer (LIFT); and time-resolved studies of short-pulse laser-material interactions.

The **Experimental and Computational Mechanics of Materials Laboratory** research areas include solid mechanics and materials engineering with a focus on the combined experimental characterization, as well as computational analysis of mechanical properties, stress/strain, and microstructure of engineering and biological materials and their applications in advancing manufacturing and materials processing technologies, engineering design analyses, and biomedical sciences and engineering.

The **Solid and Structural Mechanics Laboratory** research activities include multi-scale materials modeling, micro- and nano-mechanics, higher-order continuum theories, traumatic brain injury prevention, biomechanics, mechanics of soft materials, 3-D printed materials, indentation/contact mechanics, impact mechanics, damage and fracture mechanics, nanocomposites, cellular and porous materials, textile and ballistic materials, modeling of manufacturing processes.

The **MicroSensor Laboratory** is dedicated to the development of novel micro-sensors for nano-scale measurement. Most of the research projects use "whispering gallery mode" (WGM) resonators for ultra-sensitive measurements with high resolution in time and space. The dielectric resonators used are high optical quality polymeric spheres. The measurement principle is based on the detection of extremely small sphere deformations by monitoring the corresponding optical mode (WGM) shifts. Several photonic sensors have been developed and demonstrated in the MicroSensor Laboratory, including force, strain, wall shear stress, temperature and pressure. Recent work has focused on the development of a micro-photonic seismometer as well as electric and magnetic field sensors. Because of the extreme sensitivity of the microsphere WGM to external conditions, a wide variety of applications exist, ranging from medicine to defense.

The **Nanoscale Electro-Thermal Sciences Laboratory (NETSL)** was founded in 1995 in recognition of local industry's needs for noninvasive characterization of the thermal behavior of complex microelectronic devices. NETSL's focus is on research and creative use of computational and metrological thermal sciences to enhance the design and reliability of microelectronics and explore new scientific frontiers. The laboratory features transient thermoreflectance-based metrology systems for measuring the properties of ultra-thin materials and their interfaces as well as temperature fields of devices with deep submicron resolution. In addition, NETSL contains a novel adaptive computational tool for ultra-fast thermal modeling of complex three-dimensional devices.

The **Research Center for Advanced Manufacturing (RCAM)** involves research that lies at the interface between science, engineering, and industrial practice. The mission of RCAM is to promote and apply university lead R&D in

advanced manufacturing research and development work. RCAM supports research and development activities in areas of rapid prototyping and manufacturing (laser-based and welding-based deposition), laser materials processing (welding, forming, surface modification), welding (including electrical arc welding, variable polarity plasma arc welding, friction stir welding and micro plasma arc welding), water-jet/abrasive water-jet materials processing, sensing and control of manufacturing processes, and numerical modeling of manufacturing processes. The Center for Laser-Aided Manufacturing is housed in the RCAM facility, and it collaborates with RCAM. The Center includes the following laboratories: Laser-based Additive Manufacturing Laboratory, Laser Materials Processing Laboratory, and the Materials Characterization Laboratory.

The **Systems Laboratory** is engaged in research in robotics, biomechanics, and vibration suppression.

Instructional Laboratories & Facilities

In support of the teaching and research endeavors of the department, several instructional laboratories are available. They include the following:

Mechanics of Materials (Structures) Laboratory. This laboratory is equipped for instruction and research on the behavior of materials under various loading conditions such as fatigue, impact, hardness, creep, tension, compression and flexure.

Systems, Measurement and Control Laboratory. This facility is equipped for instruction in the design and analysis of analog and digital instrumentation and control systems. Modern measurement and instrumentation equipment are used for experimental control engineering, system identification, harmonic analysis, simulation and real-time control applications. Additional equipment is also used in microprocessor interfacing for control and instrumentation.

Thermal and Fluids Laboratory. Equipment in this laboratory is used for instruction in experimental heat transfer, thermodynamics and fluid mechanics. Modern equipment is available for conducting experiments on energy conservation; aerodynamics; internal combustion engines; heating, ventilation and air conditioning systems; convective cooling of electronics; and heat exchangers. State-of-the-art systems support automatic control and data acquisition. A partial list of the equipment in this lab includes the following: heat exchanger flow bench, airflow bench, kinematic viscosity bath, forced convection heat transfer experiment bench, low-pressure board, dead weight tester, vortex tube, free and forced heat transfer unit, hydraulic trainer and pneumatic trainer.

Mechanical Engineering Machine Shop. This facility offers a state-of-the-art CNC machine, milling machines, lathes and 3D printers used for student instruction and research.

Mechanical Engineering Computer Laboratory. This laboratory is equipped with computer work stations supported by educational software including MATLAB, ANSYS, COMSOL, SOLIDWORKS and others. Access to SMU's state of the art HPC facilities is also available.

Shared Laboratory Space

Laboratories shared with the Civil and Environmental Engineering Department include the following:

Hydraulics/Hydrology, Thermal and Fluids Laboratory
CAD Computer Laboratory
Structural and Mechanics of Materials Laboratory
Project construction area

Curriculum in Mechanical Engineering

Mechanical engineering offers the broadest curriculum in engineering to reflect the wide range of mechanical engineering job opportunities in government and industry. The mechanical engineer is concerned with creation, research, design, analysis, production and marketing of devices for providing and using energy and materials. The major concentration areas of the program include the following:

Solid and Structural Mechanics. Concerned with the behavior of solid bodies under the action of applied forces. The solid body may be a simple mechanical linkage, an aerodynamic control surface, an airplane or space vehicle, or

a component of a nuclear reactor. The applied forces may have a variety of origins, such as mechanical, aerodynamic, gravitational, electromotive and magnetic. Solid mechanics provides one element of the complete design process and interacts with all other subjects in the synthesis of a design.

Fluid Mechanics. Deals with the behavior of fluid under the action of forces applied to it. The subject proceeds from a study of basic fundamentals to a variety of applications, such as flow-through compressors, turbines and pumps, around an airplane or missile. Fluid mechanics interacts with solid mechanics in the practice of mechanical engineering because the fluid flow is generally bounded by solid surfaces. Fluid mechanics is also an element in the synthesis of a design.

Thermal Sciences. Concerned with the thermal behavior of all materials – solid, liquid and gaseous. The subject is divided into three important branches, namely, thermodynamics, energy conversion and heat transfer. Thermodynamics is the study of the interaction between a material and its environment when heat and/or work are involved. Energy conversion is a study of the transformation of one form of energy to another, such as the conversion of solar energy to electrical energy in a solar cell. Heat transfer is a study of the processes by which thermal energy is transferred from one body of material to another. Since energy is required to drive any apparatus and since some of the energy is thermal energy, the thermal sciences interact with all other areas of study as an integral part of the design process.

Materials Science and Engineering. Pertains to the properties of all materials – solid, liquid and gaseous. It deals with mechanical, fluid, thermal, electrical and other properties. Properties of interest include modulus of elasticity, compressibility, viscosity, thermal conductivity, electrical conductivity and many others. The study of materials proceeds from the characteristics of individual atoms of a material, through the cooperative behavior of small groups of atoms, up to the behavior and properties of the bulk material. Because all mechanical equipment is composed of materials, works in a material environment and is controlled by other material devices, it is clear that the materials sciences lie at the heart of the design synthesis process.

Control Systems. Provides necessary background for engineers in the dynamics of systems. In the study of controls, both the transient and steady-state behaviors of the system are of interest. The transient behavior is particularly important in the starting and stopping of propulsion systems and in maneuvering flight, whereas the steady-state behavior describes the normal operating state. Some familiar examples of control systems include the flight controls of an airplane or space vehicle and the thermostat on a heating or cooling system.

Design Synthesis. The process by which practical engineering solutions are created to satisfy needs of the society in an efficient, economical and practical way. This synthesis process is the culmination of the study of mechanical engineering and deals with all elements of science, mathematics and engineering.

Areas of Concentration

Mechanical engineering is a diverse field, and advanced major electives may be selected from a variety of advanced courses in mechanical engineering. In addition, concentrations are offered in premedical/biomedical and engineering management and entrepreneurship, which includes required courses in engineering management, information engineering and global perspectives, technical entrepreneurship, and technical communications. Students wishing to obtain a second degree in mathematics or physics should contact the respective departments to discuss the requirements.

Mechanical Engineering, B.S.M.E.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics and Science (32 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II

or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus *(formerly MATH 2339 prior to Fall 2017)*
- MATH 3304 - Introduction to Linear Algebra *(formerly MATH 3353 prior to Fall 2017)*
- MATH 3313 - Ordinary Differential Equations *(formerly MATH 2343 prior to Fall 2017)*

- STAT 4340 - Statistical Methods for Engineers and Applied Scientists
  or
- equivalent

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism

One course from the following:
- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
  (or BIOL 1402 prior to Fall 2017)

- CHEM 1304 - General Chemistry
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- PHYS 3305 - Introduction to Modern Physics
- PHYS 3340 - Computational Physics
- PHYS 4321 - Methods of Theoretical Physics
- Math course, 3000 level or higher, approved by adviser

Engineering (54 Credit Hours)
- ME 1302 - Introduction to Mechanical Engineering
- ME 2310 - Statics
- ME 2320 - Dynamics

- ME 2331 - Thermodynamics
- ME 2131 - Thermodynamics Laboratory

- ME 2340 - Mechanics of Deformable Bodies
- ME 2140 - Mechanics of Materials Laboratory

- ME 2342 - Fluid Mechanics
- ME 2142 - Fluid Mechanics Laboratory

- ME 2372 - Introduction to CAD

- ME 3310 - Computational Methods for Engineering Applications /CEE 3310 - Computational Methods for Engineering Applications

- ME 3332 - Heat and Mass Transfer
- ME 3132 - Heat Transfer Laboratory

- ME 3340 - Engineering Materials
- ME 3370 - Manufacturing Processes
- ME 4152 - Professional Development
- ME 4340 - Elements of Mechanical Engineering Measurements *(formerly ME 2350 prior to Fall 2017)*

- ME 4360 - Design and Control of Mechanical Systems
- ME 4160 - Control Laboratory

- ME 4370 - Elements of Mechanical Design
- ECE 2350 - Circuit Analysis I

One course from the following:

- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship
- EMIS 2375 - Cultural and Ethical Implications of Technology
- EMIS 3308 - Engineering Management

Tracks and Specializations (18 Credit Hours)

Choose one from the following:

Distributed Track

- ME 4380 - Mechanical Engineering Design I
- One from thermofluids required courses below
- One from dynamics and controls required courses below
- One from solid mechanics, materials, and manufacturing required courses below
- Two additional ME courses from any specialization's required or elective courses

Dynamics and Controls Specialization

- One from thermofluids required or elective courses
- One from solid mechanics, materials, and manufacturing required or elective courses

Required Courses

- ME 4322 - Vibrations
- ME 5374 - Advanced CAD/CAE

Elective Courses

Two courses from the following*:

- ME 4381 - Mechanical Engineering Design II
- ME 5302 - Linear System Analysis
- ME 5320 - Intermediate Dynamics
- ME 5326 - Vehicle Dynamics
- ME 5347 - Frequency Domain Methods in Linear Control Systems
- ME 5362 - Engineering Analysis with Numerical Methods
- ME 5365 - Fluid Power Systems
- ME 5390 - Special Projects

Solid Mechanics, Materials, and Manufacturing Specialization

- One from thermofluids required or elective courses

- One from dynamics and controls required or elective courses

Required Courses
- ME 5338 - Nontraditional Manufacturing Processes
- ME 5374 - Advanced CAD/CAE

Elective Courses
Two courses from the following*:
- ME 4381 - Mechanical Engineering Design II
- ME 5361 - Matrix Structure Analysis
- ME 5362 - Engineering Analysis with Numerical Methods
- ME 5364 - Introduction to Structural Dynamics
- ME 5390 - Special Projects

Thermofluids Specialization
- One from dynamics and controls required or elective courses
- One from solid mechanics, materials, and manufacturing required or elective courses

Required Courses
- ME 3341 - Intermediate Thermal Sciences
- ME 4338 - Thermal Systems Design

Elective Courses
Two courses from the following*:
- ME 4381 - Mechanical Engineering Design II
- ME 5325 - Computational Thermal Sciences and Engineering
- ME 5332 - Heat Transfer in Biomedical Sciences
- ME 5333 - Transport Phenomena in Porous Media
- ME 5362 - Engineering Analysis with Numerical Methods
- ME 5365 - Fluid Power Systems
- ME 5371 - Introduction to Gas Dynamics and Analysis of Propulsion Systems
- ME 5390 - Special Projects

Total for the Major Only: 104 Credit Hours

Any deviation from the mechanical engineering curriculum requires approval of a petition submitted by the student to the Mechanical Engineering Department faculty prior to the beginning of the term during which the student expects to complete the requirements for graduation.

*Up to 2 electives from any electives outside of a student's chosen specialization may be used to satisfy a second major. Please see your academic advisor for a list of approved majors and electives.

Mechanical Engineering, B.S.M.E. - Engineering Management and Entrepreneurship Track

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Engineering Management and Entrepreneurship Track

Mathematics and Science (32 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus *(formerly MATH 2339 prior to Fall 2017)*
- MATH 3304 - Introduction to Linear Algebra *(formerly MATH 3353 prior to Fall 2017)*
- MATH 3313 - Ordinary Differential Equations *(formerly MATH 2343 prior to Fall 2017)*

- STAT 4340 - Statistical Methods for Engineers and Applied Scientists
  or
- equivalent

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory
- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory
- PHYS 1304 - Introductory Electricity and Magnetism

One course from the following:

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
  (or BIOL 1402 prior to Fall 2017)

- CHEM 1304 - General Chemistry
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- PHYS 3305 - Introduction to Modern Physics
- PHYS 3340 - Computational Physics
- PHYS 4321 - Methods of Theoretical Physics
- Math course, 3000 level or higher, approved by adviser

Engineering (51 Credit Hours)

- ECE 2350 - Circuit Analysis I
- ME 1302 - Introduction to Mechanical Engineering
- ME 2310 - Statics
- ME 2320 - Dynamics

- ME 2331 - Thermodynamics
- ME 2131 - Thermodynamics Laboratory

- ME 2340 - Mechanics of Deformable Bodies
- ME 2140 - Mechanics of Materials Laboratory

- ME 2342 - Fluid Mechanics

- ME 2142 - Fluid Mechanics Laboratory

- ME 2372 - Introduction to CAD

- ME 3332 - Heat and Mass Transfer
- ME 3132 - Heat Transfer Laboratory

- ME 3340 - Engineering Materials
- ME 3370 - Manufacturing Processes
- ME 4152 - Professional Development
- ME 4340 - Elements of Mechanical Engineering Measurements *(formerly ME 2350 prior to Fall 2017)*

- ME 4360 - Design and Control of Mechanical Systems
- ME 4160 - Control Laboratory

- ME 4370 - Elements of Mechanical Design

One course from the following:

- ME 4338 - Thermal Systems Design
- ME 4380 - Mechanical Engineering Design I
- ME 5374 - Advanced CAD/CAE

Engineering Leadership (12 Credit Hours)

- CEE 3302 - Engineering Communications
- CS 4360 - Technical Entrepreneurship
- EMIS 3308 - Engineering Management

- EMIS 5365 - Program and Project Management
  or
- ME 5369 - Innovation Management

Advanced Major Electives (9 Credit Hours)

ME courses, 3000 level or higher, from the thermofluids; dynamics and controls; and solid mechanics, materials, and manufacturing specializations in the B.S. in mechanical engineering degree plan

Total for the Major Only: 104 Credit Hours

Any deviation from the mechanical engineering curriculum requires approval of a petition submitted by the student to the Mechanical Engineering Department faculty prior to the beginning of the term during which the student expects to complete the requirements for graduation.

Mechanical Engineering, B.S.M.E. - Premedical/Biomedical Track

The Mechanical Engineering Department offers a B.S.M. degree with a premedical/biomedical track. This program enables students to satisfy the premedical or predental requirements for admission to medical or dental school, while at the same time satisfying the requirements for an accredited degree in mechanical engineering.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Premedical/Biomedical Track

Mathematics and Science (56 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus *(formerly MATH 2339 prior to Fall 2017)*
- MATH 3304 - Introduction to Linear Algebra *(formerly MATH 3353 prior to Fall 2017)*
- MATH 3313 - Ordinary Differential Equations *(formerly MATH 2343 prior to Fall 2017)*

- STAT 4340 - Statistical Methods for Engineers and Applied Scientists
  or
- equivalent

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
  (or BIOL 1402 prior to Fall 2017)

- BIOL 3304 - Genetics
- BIOL 3350 - Cell Biology

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- CHEM 3371 - Organic Chemistry
- CHEM 3117 - Organic Chemistry Laboratory

- CHEM 3372 - Organic Chemistry
- CHEM 3118 - Organic Chemistry Laboratory

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

Engineering (51 Credit Hours)

- ECE 2350 - Circuit Analysis I
- ME 1302 - Introduction to Mechanical Engineering
- ME 2310 - Statics
- ME 2320 - Dynamics

- ME 2331 - Thermodynamics
- ME 2131 - Thermodynamics Laboratory

- ME 2340 - Mechanics of Deformable Bodies

- ME 2140 - Mechanics of Materials Laboratory

- ME 2342 - Fluid Mechanics
- ME 2142 - Fluid Mechanics Laboratory

- ME 2372 - Introduction to CAD

- ME 3332 - Heat and Mass Transfer
- ME 3132 - Heat Transfer Laboratory

- ME 3340 - Engineering Materials
- ME 3370 - Manufacturing Processes
- ME 4152 - Professional Development
- ME 4340 - Elements of Mechanical Engineering Measurements *(formerly ME 2350 prior to Fall 2017)*

- ME 4360 - Design and Control of Mechanical Systems
- ME 4160 - Control Laboratory

- ME 4370 - Elements of Mechanical Design

One course from the following:

- ME 4338 - Thermal Systems Design
- ME 4380 - Mechanical Engineering Design I
- ME 5374 - Advanced CAD/CAE

Advanced Major Elective (3 Credit Hours)

ME course, 3000 level or higher, from the thermofluids; dynamics and controls; and solid mechanics, materials, and manufacturing tracks in the B.S. in mechanical engineering degree plan

or

- ME 4381 - Mechanical Engineering Design II
- ME 5390 - Special Projects

Total for the Major Only: 110 Credit Hours

Any deviation from the mechanical engineering curriculum requires approval of a petition submitted by the student to the Mechanical Engineering Department faculty prior to the beginning of the term during which the student expects to complete the requirements for graduation.

Mechanical Engineering Minor

For approval of a minor in mechanical engineering, the student should consult the department. The five courses represent a minor that provides a broad introduction to mechanical engineering. Based on the student's interests and background, other sets of mechanical engineering courses may be substituted with the department's approval.

Requirements for the Minor

Four courses from the following: (12 Credit Hours)

- ME 2310 - Statics
- ME 2320 - Dynamics
- ME 2331 - Thermodynamics
- ME 2340 - Mechanics of Deformable Bodies
- ME 2342 - Fluid Mechanics

One course from the following: (3 Credit Hours)

- ME 3340 - Engineering Materials *(formerly ME 2350 prior to Fall 2017)*
- ME 3370 - Manufacturing Processes

Total: 15 Credit Hours

Mechanical Engineering Courses

ME 1301 - Machines and Society
Credits: 3
Introduces engineering systems to nonengineering students. Defines engineering, what engineers do, and what mechanical engineers do. Topics include the historical perspective on engineering design, principles of design engineering, energy conversion processes, engineered products, what mechanical engineers produce, the basic principles of converting science to technology, and the development of technology for society and humanity. Also, the laboratory and workshop experience, including computer animation and simulation.

ME 1302 - Introduction to Mechanical Engineering
Credits: 3
Introduction to mechanical engineering and the engineering profession. Topics include forces in structures and fluids, conservation laws and thermal systems, motion of machinery, engineering design, and basic concepts in intellectual property for mechanical engineers. Also, topics in mechanical engineering as appropriate for current events. Prerequisite or corequisite: MATH 1337.

ME 1303 - Energy, Technology, and the Environment
Credits: 3
An elementary introduction to the ways energy is produced and distributed, energy resources, electrical power, heating and cooling, solar energy applications, and other topics related to people and the environment.

ME 1304 - Green Engineering: Designing Tomorrow Today
Credits: 3
Presents how design choices for materials, manufacturing processes, energy usage, and end-of-life disposal affect economic and natural environments. Also, case studies in design for the environment for various industries. In lab, students use computer modeling to create designs and then analyze and compare the designs' total life cycle impact through eco-audits of energy and carbon footprints. Students also use software to compare and select materials best suited for a particular design and its constraints.

ME 1305 - Information Technology and Society
Credits: 3
A comprehensive survey of information technologies and the growing interconnectivity between them as currently utilized throughout society. Students acquire portable IT skills in the use of word processing, spreadsheets, presentation tools, graphics applications, and the Internet that will prepare them for success in the workplace and beyond. Discusses issues surrounding IT, including history, ethics, legal questions, use in producing and maintaining a competitive advantage, effects on society, and associated costs and benefits.

ME 2131 - Thermodynamics Laboratory
Credits: 1
One 3–hour laboratory session per week. Basic thermal–property and power–device measurements to complement lecture material of ME 2331. Corequisite: ME 2331.

ME 2140 - Mechanics of Materials Laboratory
Credits: 1
Experiments in mechanics of deformable bodies, to complement ME 2340. Simple tension tests on structural materials, simple shear tests on riveted joints, stress and strain measurements, engineering and true stress, engineering and true strain, torsion testing of cylinders, bending of simple supported beams, deflection of simply

supported beams, buckling of columns, strain measurements of pressure vessels, Charpy impact tests, and the effect of stress concentrators. Corequisite: ME/CEE 2340.

ME 2142 - Fluid Mechanics Laboratory
Credits: 1
One 3–hour laboratory session per week. Experiments in fluid friction, pumps, boundary layers, and other flow devices to complement lecture material of ME 2342. Corequisite: ME 2342.

ME 2310 - Statics
Credits: 3
Equilibrium of force systems, computations of reactions and internal forces, and determinations of centroids and moments of inertia. Also, introduction to vector mechanics. Prerequisite: MATH 1337. Prerequisite or corequisite: PHYS 1303.

ME 2320 - Dynamics
Credits: 3
Introduction to kinematics and dynamics of particles and rigid bodies. Also, Newton's laws, kinetic and potential energy, linear and angular momentum, work, impulse, and inertia properties. Prerequisite: C or better in CEE 2310/ME 2310.

ME 2331 - Thermodynamics
Credits: 3
The first and second laws of thermodynamics and thermodynamic properties of ideal gases, pure substances, and gaseous mixtures are applied to power production and refrigeration cycles. Prerequisites: MATH 1338 or MATH 1340, and a C or better in ME 2310/CEE 2310. Corequisite: ME 2131.

ME 2340 - Mechanics of Deformable Bodies
Credits: 3
Introduction to analysis of deformable bodies, including stress, strain, stress–strain relations, torsion, beam bending and shearing stresses, stress transformations, beam deflections, statically indeterminate problems, energy methods, and column buckling. Prerequisite: C or better in CEE/ME 2310. Corequisite: ME/CEE 2140.

ME 2342 - Fluid Mechanics
Credits: 3
Fluid statics, fluid control volume, and applications; irrotational flow; Bernoulli's and Euler's equations; similitude and dimensional analysis; differential analysis of fluid flow; incompressible viscous flow; and boundary layer theory. Prerequisites: MATH 3302, ME 2320 and C or better in ME 2331. Corequisites: ME 2142 and MATH 3313.

ME 2372 - Introduction to CAD
Credits: 3
Introduces mechanical computer-aided design. Surveys technical topics related to CAD and computer-aided manufacturing, with emphasis on the hands-on use of interactive computer graphics in modeling, drafting, assembly, and analysis using a state-of-the-art CAD system.

ME 3132 - Heat Transfer Laboratory
Credits: 1
One 3–hour laboratory session per week. Experiments in conduction, convection, and radiation to complement lecture material of ME 3332. Corequisite: ME 3332.

ME 3310 - Computational Methods for Engineering Applications
Credits: 3
Applications of numerical analysis and computer programming techniques to solve engineering problems are introduced. Review of mathematical background is presented with emphasis on numerical modeling and computer-oriented solutions for engineering applications. Topics covered include precision and accuracy, errors, roots of

equations, solution of linear algebraic equations, statistics and curve fittings, numerical integration and differentiation, and solution of ordinary differential equations. Examples from different areas of practice in engineering are reviewed, such as stress transformation, numerical integration to obtain beam deflection, numerical solution of Euler's buckling equation, roots of the equation for fluid flow in frictional pipe, optimization techniques applied to minimum potential energy, as well as solving the system of equations representing force-displacement relationship of a structure or heat transfer in solids, among others. Corequisite: MATH 3313.

ME 3332 - Heat and Mass Transfer
Credits: 3
Fundamental principles of heat transmission by conduction, convection, and radiation; mass transfer; and application of these principles to the solution of engineering problems. Prerequisite: ME 2342. Corequisite: ME 3132.

ME 3340 - Engineering Materials
Credits: 3
A study of the fundamental factors influencing the structure and properties of structural materials, including metals, polymers, and ceramic. Covers phase diagrams, heat treatment, metallography, mechanical behavior, atomic bonding, and corrosion. Prerequisites: CHEM 1303 and a C or better in ME 2310 and ME 2340.

ME 3341 - Intermediate Thermal Sciences
Credits: 3
Application of the laws of thermodynamics, availability, irreversibility, real gases and mixtures, generalized thermodynamics relations and charts, and chemical equilibrium. Prerequisites: C or better in CEE 2331/ME 2331.

ME 3350 - Structural Analysis
Credits: 3
Emphasis on the classical methods of analysis of statically determinate and indeterminate structural systems. Also, computation of reactions, shears, moments, and deflections of beams, trusses, and frames. Students use computers as an analytical tool. Prerequisites: ME 2140/CEE 2140, C or better in ME 2340/CEE 2340.

ME 3370 - Manufacturing Processes
Credits: 3
Comprehensive, balanced, and up-to-date coverage of the relevant fundamentals and real-world applications of manufacturing processes (e.g., casting, forming, machining, high-power laser beam materials processing, electrical discharge machining, abrasive water-jet machining). Also, rapid prototyping and manufacturing. A set of laboratories introduces students to the basics of manufacturing processes and reinforces lecture material. Prerequisite: ME 3340.

ME 3390 - German Technoculture
Credits: 3
Fundamentals of German contemporary culture within the context of technology and study abroad experience. Emphasis is placed on reading and communication (writing and oral) skills. Field trips are an integral part of the course.

ME 4090 - Senior Project
Credits: 0

ME 4152 - Professional Development
Credits: 1
Introduces engineering students to elements of the professional work experience, to the role of engineers within the public and private sectors, and to their work results as they apply to society and the economy. Ethics, communication, and continued professional development are emphasized. Prerequisites: 30 credit hours in ME and senior standing.

ME 4160 - Control Laboratory
Credits: 1
Experiments in control engineering, digital and analog simulation of feedback control systems, actuator saturation, and design and implementation of simple control systems on various laboratory equipment. Corequisite: ME 4360.

ME 4322 - Vibrations
Credits: 3
Review of fundamentals of vibrations with application of simple machine and structural members. Topics include harmonic motion, free and forced vibration, resonance, damping, isolation, and transmissibility. Single, multiple, and infinite degree–of–freedom systems are also examined. Prerequisites: ME 2320/CEE 2320, MATH 3313, and MATH 3304.

ME 4338 - Thermal Systems Design
Credits: 3
Prepares, presents, and critiques thermal systems designs. Solves associated problems of simulation, optimization, and economics. Includes solving problems and design with a thermal network analyzer. Prerequisites: ME 3332, 30 credit hours in ME, and senior standing.

ME 4340 - Elements of Mechanical Engineering Measurements
Credits: 3
Introduces basic engineering experimentation and measurements, including techniques for measurement and experimentation; data acquisition; signal processing; and analysis, interpretation, and reporting of results. Prerequisites: ECE 2350, senior standing, and a minimum 30 credits in ME.

ME 4350 - Design of Steel Structures
Credits: 3
Study of strength, behavior, and design of metal structures; flexural and axial members, bolted and welded connections, and composite beams. Prerequisite: ME 3350/CEE 3350.

ME 4351 - Ethical Decision-Making in Applied Science and Engineering and Technology
Credits: 3
The ethical issues, hard choices, and human failures in notorious, historical cases such as the Space Shuttle Challenger, Grand Teton Dam, and Union Carbide Bhopal disasters. Principles, methods, and bases for ethical decision-making and action. Application of classical ethical philosophy to hypothetical, modern problems and dilemmas in the business of control and implementation of technology.

ME 4360 - Design and Control of Mechanical Systems
Credits: 3
Covers block modeling of mechanical systems, mathematical models of linear systems, and solution of differential equations by use of Laplace transforms. Also, feedback control systems, time domain analysis, stability, frequency response, and root locus plots. Includes Bode diagrams, performance criteria, system compensation, and design of control systems for mechanical systems. Prerequisites: ME 2320/CEE 2320 and MATH 3313. Corequisite: ME 4160.

ME 4370 - Elements of Mechanical Design
Credits: 3
Application of the principles of mechanics and physical properties of materials to the proportioning of machine elements, including consideration of fatigue, functioning, productivity, and economic factors. Also, computer applications. Prerequisites: ME 3370 and C or better in ME 2340/CEE 2340.

ME 4380 - Mechanical Engineering Design I
Credits: 3
A study of design methodology and development of professional project–oriented skills, including communication, team management, creative problem–solving, interpersonal management, and leadership skills. Uses team–project

activities to apply project–oriented skills to solution of design problems. Investigates nontechnical considerations in design, including patents, ethics, aesthetics, safety, and economics. Prerequisites: 30 credit hours in ME and senior standing.

ME 4381 - Mechanical Engineering Design II
Credits: 3
Student design teams have full responsibility for conducting a full–term design project for an industrial client. Periodic design reports and design reviews are presented to and critiqued by the industrial client, the faculty, and the design team. Prerequisite: ME 4380, ME 4338, or ME 5374.

ME 5050 - Undergraduate Internship
Credits: 0

ME 5190 - Special Projects
Credits: 1
An opportunity for the advanced undergraduate student to undertake independent investigation, design, and/or development. The project and the supervising faculty must be approved by the chair of the department in which the student expects to receive the degree.

ME 5191 - Special Topics
Credits: 1
Intensive study of a particular subject not available in regular course offerings and under the instruction of a faculty member approved by the department.

ME 5290 - Undergraduate Seminar
Credits: 2
An opportunity for the advanced undergraduate student to undertake independent investigation, design, and development. The project and the supervising faculty must be approved by the chair of the department in which the student expects to receive the degree.

ME 5302 - Linear System Analysis
Credits: 3
Introduces topics within the domain of modern control theory, with emphasis on the application of the developed concepts in designing linear systems and casting their responses in prescribed forms. Includes state representation of linear systems, controllability, observability, minimal representation, linear state variable feedback, observers, and quadratic regulator theory. Prerequisite MATH 3304.

ME 5303 - Organizational Leadership
Credits: 3
This course in personnel and organizational leadership covers the scientific structure of organizations and methods used to improve the productivity and quality of life of people working in the organization. Introduces industrial organizational psychology as applied to the manufacturing organization, with a focus on understanding individual behavior and experiences in industrial and organizational settings. Also introduces industrial psychology as it addresses the human resource functions of analyzing jobs and appraising, selecting, placing, and training people. Addresses the psychology of work, including employee attitudes, behavior, emotions, health, motivation, and well-being, as well as the social aspects of the workplace.

ME 5314 - Introduction to Microelectromechanical Systems and Devices
Credits: 3
Develops the basics for MEMS and devices, including microactuators, microsensors, and micromotors; principles of operation; micromachining techniques (surface and bulk micromachining); IC-derived microfabrication techniques; and thin lm technologies as they apply to MEMS.

ME 5319 - Advanced Mechanical Behavior of Materials
Credits: 3
A senior-graduate course that relates mechanical behavior on a macroscopic and microscopic level to design. Topics include macroscopic elasticity and plasticity, viscoelasticity, yielding, yield surfaces, work hardening, geometric dislocation theory, creep, and temperature- and environment-dependent mechanical properties. Prerequisites: ME 3340 and C or better in ME 2340/CEE 2340.

ME 5320 - Intermediate Dynamics
Credits: 3
Emphasizes methods of formulation and solution of the kinematical, dynamical, and motion constraint equations for three-dimensional, lumped-parameter, dynamical systems. Detailed discussions on differentiation of vectors, kinematics, inertia properties, momentum and energy principles, generalized forces, holonomic and nonholonomic constraints, constrained generalized coordinates, and Newton-Euler and Lagrange formulations of the equations of motion. The symbolic software Mathematica is used to reduce the time and effort required to derive the kinematical and dynamical equations. Practical examples of detailed motion analysis of mechanisms using CAD software to augment the theoretical formulations. Prerequisites: ME 2320/CEE 2320 and MATH 3302, MATH 3313.

ME 5321 - Failure Analysis and Prevention
Credits: 3
A senior or graduate course in the evaluation of the failure of structural materials and components. Topics include site examination, macroscopic examination, optical microscopy, transmission electron and SEM interpretation, examination and interpretation of failure surfaces, failure modes, and causes of failure. Prerequisite: ME 3340.

ME 5323 - Introduction to Fracture Mechanics
Credits: 3
Explores linear elastic fracture mechanics and application of theory to design and evaluation of critical components: elastic stress intensity calculations, plane strain fracture toughness, plane stress and transitional behavior, crack opening displacements, fracture resistance, fatigue crack propagation, transition temperature approach to fracture control, microstructure of fracture, and fracture control programs. Prerequisites: C or better in ME 2340/CEE 2340.

ME 5324 - Fatigue Theory and Design
Credits: 3
A senior or graduate course that includes continuum, statistical, and fracture mechanics treatments of fatigue, stress concentrators, planning and analysis of probit, SNP and response tests, mechanisms of fatigue design, fail-safe versus safe-life design, and crack propagation. Emphasizes engineering design aspects of fatigue rather than theoretical mechanisms. Prerequisite: ME 3340.

ME 5325 - Computational Thermal Sciences and Engineering
Credits: 3
Fundamentals of computational fluid dynamics for engineers. Review of numerical solutions of partial differential equations; use of commercial codes, applicability, and pitfalls; and geometry and grid generation, convergence, and accuracy. Understanding of CFD principles through example problems solved by students with commercial CFD software. Prerequisite: MATH 3313. Restricted to ME majors.

ME 5326 - Vehicle Dynamics
Credits: 3
Covers modeling of wheeled vehicles to predict performance, handling, and ride. Explores the effects of vehicle center of mass, tire characteristic traction and slip, engine characteristics, and gear ratios of performance. Includes suspension design and steady-state handling models of four-wheeled vehicles and car trailer systems to determine oversteer and understeer characteristics, critical speeds, and stability. Also, multidegree-of-freedom ride models (including tire and suspension compliance) and computer animation and simulations. Prerequisite: ME 2320/CEE 2320 or permission of instructor.

ME 5329 - Fluid Power Systems
Credits: 3
Develops the fundamentals of a fluid power system design by introducing the basic building blocks such as pumps, motors, hydraulic cylinders, accumulators, multiposition directional valves, and other related components. Studies properties of the common hydraulic fluids to ascertain their influence on the behavior of typical fluid power system. Includes mathematical models of the individual components to aid in the simulation of a hydraulic system for a desired function. Also, introduces commercially available software for system simulation. The 1-hour lab allows students to gain hands-on experience with hydraulic systems.

ME 5330 - Heat Transfer
Credits: 3
Application of the principles of conduction, convection, and radiation heat transfer. Topics include steady and unsteady state, special configurations, numerical and analytical solutions, and design. Prerequisite: ME 3332 or equivalent.

ME 5331 - Advanced Thermodynamics
Credits: 3
Laws of thermodynamics, availability, irreversibility, real gases and mixtures, thermodynamic relations and generalized charts, combustion, chemical and phase equilibrium, and computational combustion. Prerequisites: ME 2342 and C or better in CEE 2331/ME 2331.

ME 5332 - Heat Transfer in Biomedical Sciences
Credits: 3
Fundamentals of heat transfer in medicine and biology, biothermal properties, thermal regulation processes, and biomedical heat transfer processes with applications in tissue laser radiation, freezing and thawing of biological materials, cryosurgery, and others. Prerequisites: ME 2342/CEE 2342 and ME 3332, or consent of instructor.

ME 5333 - Transport Phenomena in Porous Media
Credits: 3
Covers fractals and their role in characterizing complex structures and the fundamental concepts of momentum, heat, and mass transport through heterogeneous (e.g., composite, porous) materials, with emphasis on the mathematical modeling of heat and mass transfer in heterogeneous and fully saturated systems. Presents relevant industrial and natural applications throughout the course. Prerequisites: ME 2342/CEE 2342 and ME 3332, or consent of instructor.

ME 5336 - Intermediate Fluid Dynamics
Credits: 3
Reviews fundamental concepts of undergraduate fluid mechanics and introduces advanced fluid dynamics, including irrotational flow, tensor notation, and the Navier-Stokes equations. Prerequisite: ME 2342/CEE 2342 or equivalent.

ME 5337 - Introduction to Computational Fluid Dynamics
Credits: 3
Concepts of stability, convergence, accuracy, and consistency; applications to linear and nonlinear model partial differential equations; curvilinear grid generation; and advanced topics in grid generation. Also, the Beam-Warming factored implicit technique; MacCormack techniques; and solution methods for the Reynolds equation of lubrication, the boundary layer equations, and the Navier-Stokes equations. Prerequisites: ME 2342 or equivalent, MATH 3313 or equivalent, or permission of instructor.

ME 5338 - Nontraditional Manufacturing Processes
Credits: 3
Explores difficult-to-machine materials and the increased geometrical complexity of components that have resulted in the development of nontraditional manufacturing processes based on the application of electrical, chemical, ultrasonic, magnetic, and photonic sources of energy. Introduces fundamentals of materials processing by laser beam, electron beam, ion beam, abrasive waterjet, ultrasonic machining, electro-discharge machining, chemical and

electrochemical machining, and hybrid machining (laser beam, plasma arc, and waterjet assisted machining). Emphasizes the additive manufacturing processes as one of the fastest developing disciplines in materials processing. Covers theoretical problems and practical considerations related to the nontraditional manufacturing processes. Prerequisites: ME 3340, ME 3370; a basic understanding of manufacturing processes, mechanical and physical properties of materials, and physics.

ME 5340 - Introduction to Solid Mechanics
Credits: 3
Three-dimensional stress and strain, failure theories, introduction to two-dimensional elasticity, torsion of prismatic members, beams on elastic foundation, introduction to plates and shells, and energy methods. Prerequisites: MATH 3313 and C or better in ME 2340/CEE 2340.

ME 5341 - Structural Properties of Solids
Credits: 3
Develops an understanding of the structural aspect of solids and their relationship to properties and applications. Topics include structural defects, bonding and crystal structure, solid-state reactions and phase transformations, degradation, and deformation. Prerequisite: ME 3340 or permission of instructor.

ME 5345 - Applied Mechatronics
Credits: 3
Mechatronics is the intersection of electronics, mechanical systems, controls, and computer science. This is a hands-on, project-based class that teaches students how to build electromechanical systems and bring them to life with electrical circuits, microcontrollers, sensors, and actuators. No prior electronics experience required. Prerequisites: Senior ME standing and at least 30 credit hours in engineering courses; ECE 2350.

ME 5347 - Frequency Domain Methods in Linear Control Systems
Credits: 3
Includes analysis and design of automatic control systems for linear problems using frequency domain methods. Topics include performance analysis using Bode plots, stability analysis using Nyquist criterion, robustness analysis using gain margin, phase margin, and delay margin, controller design through loop shaping for meeting performance specifications, and an introduction to robust control. Prerequisite: ME 4360.

ME 5355 - Integrated Design and Manufacturing
Credits: 3
Industrial performance is strongly correlated to success in integrating design and manufacturing. Examines the interrelationships between the total product realization cycle, product generation, and manufacturing, with the objective of improving industrial performance.

ME 5356 - Human Factors in Design and Manufacturing
Credits: 3
Deals with human factors or ergonomics relating to designing for human use. Covers the empirical and analytic aspects of design and manufacturing as affected by the need to accommodate human use and abilities. Topics include visual displays of static and dynamic information, text, graphics, symbols, and codes. Also, auditory, tactual, and olfactory displays, as well as speech and nonverbal communications, physical work and materials handling, motor skills, and hand tool devices and controls. Explores workplace design, anthropometry, component arrangement in space, lighting, sound, climate, and motion. Recommended: Knowledge of simple statistical analysis. Prerequisite: Senior or graduate standing, or permission of instructor.

ME 5357 - Optimized Mechanical Design
Credits: 3
Covers principles and methods for optimal design of machine elements (e.g., springs, shafts, gears, weldments of joints), mechanical systems (e.g., transmissions, cam systems, inertia loads and balancing), and computer applications. Prerequisite: ME 4370 or equivalent.

ME 5359 - Analysis and Design of Optoelectronic Packaging
Credits: 3
Provides an overview of optical fiber interconnections in telephone networks, packaging for high-density optical back planes, and selection of fiber technologies. Also, semiconductor laser and optical amplifier packaging, optical characteristics and requirements, electrical properties, mechanical properties, waveguide technologies, optical alignment and packaging approaches, passive device fabrication and packaging, array device packaging, hybrid technology for optoelectronic packaging, and flip-chip assembly for smart pixel arrays.

ME 5360 - Electronic Product Design and Reliability
Credits: 3
Investigates the failures, failure modes, and failure mechanisms in electronic systems. Covers failure detection, electrical simulation, and environmental stress tests. Also, failure analysis, including the use of X rays, thermal imaging and infrared microscopy, acoustical imaging, scanning laser acoustic microscopy, infrared spectroscopy, differential scanning calorimeter, thermomechanical analyzer, and other testing procedures. Discusses solder joint reliability of ball grid array assemblies, plastic ball grid array assemblies, flip chip assemblies, and chip scale package assemblies, as well as fine pitch, surface mount technology assemblies. Explores temperature as a reliability factor, an overview of high-temperature electronics, the use of silicon devices at high temperatures, and the selection of passive devices for use at high temperatures. Prerequisite: ME 3340 or graduate student standing.

ME 5361 - Matrix Structure Analysis
Credits: 3
A systematic approach to the formulation of force and displacement method of analysis, the representation of structures as assemblages of elements, and computer solution of structural systems. Prerequisite: ME 3350/CEE 3350 or permission of instructor.

ME 5362 - Engineering Analysis with Numerical Methods
Credits: 3
Application of numerical and approximate methods in solving a variety of engineering problems. Examples include equilibrium, buckling, vibration, fluid mechanics, thermal science, and surveying problems. Prerequisite: Senior standing.

ME 5363 - Electronic Manufacturing Technology
Credits: 3
Covers the complete field of electronics manufacturing. Topics include an introduction to the electronics industry; electronic components; the theory and methods of manufacture of solid-state devices; packaging techniques such as wire bonding, flip chip, and TAB; printed wiring board; soldering and solderability; leaded and surface-mounted components; electromagnetic interference; electrostatic discharge prevention; testability; and electronic stress screening. In each area, current technology as well as leading-edge tools are discussed.

ME 5364 - Introduction to Structural Dynamics
Credits: 3
Covers the dynamic responses of structures and the behavior of structural components to dynamic loads and foundation excitations. Also, single- and multidegree-of-freedom systems response and applications to analysis of framed structures. Introduces systems with distributed mass and flexibility. Prerequisites: MATH 3313 and CEE 3350/ME 3350 or CEE 5361/ME 5361.

ME 5365 - Fluid Power Systems
Credits: 3
Principles of operations; design criteria; and performance characteristics of fluid power systems' components such as pumps, motors, valves, and cylinders. Also, goals–oriented circuit design and analysis, industrial standards, and circuit representation and maintenance. Includes practical and/or demo lectures, a design project based on specialized software, industry speakers, and site visits. Prerequisites: ME 2342 and ME 2320.

ME 5368 - Project and Risk Management
Credits: 3
Focuses on specific concepts, techniques, and tools for managing projects successfully, including network planning techniques, resource allocation, models for multiproject scheduling, methods of controlling costs, determining schedules, and performance parameters. Covers the basics of risk management, including hard analysis, risk analysis, risk control, and risk financing. Focuses on integrating risk assessment with managerial decision-making. Emphasizes examples and case studies.

ME 5369 - Innovation Management
Credits: 3
Provides a foundation of modern theory and practice of product and organizational innovation. Reviews the modern applications of disruptive innovation: technological, organizational, and market-driven. Examines ways to implement and augment innovation capability within an organization. Additionally, covers tools and techniques for recognizing disruption in existing markets and how to respond as well as how innovation fits into the product development process.

ME 5371 - Introduction to Gas Dynamics and Analysis of Propulsion Systems
Credits: 3
Introduction to the mechanics and thermodynamics of high-speed compressible flows with application to the design of propulsion systems. Focus is on one-dimensional and quasi one-dimensional compressible flow, normal shocks, oblique shocks, and two-dimensional flow method of characteristics. Also includes analysis of air-breathing propulsion systems and design of air-breathing propulsion systems components such as inlets and nozzles. Prerequisites: ME 2342 and C or better in CEE 2331/ME 2331.

ME 5372 - Introduction to CAD
Credits: 3
Introduces mechanical computer-aided design. Surveys technical topics related to CAD and computer-aided manufacturing, with emphasis on the hands-on use of interactive computer graphics in modeling, drafting, assembly, and analysis using a state-of-the-art CAD system. Prerequisite: Junior standing or consent of instructor.

ME 5374 - Advanced CAD/CAE
Credits: 3
Focuses on advanced modeling techniques, structural analysis and optimization, kinematical and dynamical analysis, mechanism design and virtual prototyping, and thermal analysis and flow simulation. Emphasis on hands-on use of state-of-the-art CAD/CAE systems. Prerequisites: ME 2372 or consent of instructor, 30 credit hours in ME, and senior standing.

ME 5376 - Robotics: Introduction to Computer-Aided Manufacturing
Credits: 3
Introduction to industrial robotics and numerically controlled machines, economics of CAM, applications of robotics in industry, robot safety, addition of senses and intelligence, and research in CAM flexible manufacturing cells and systems. Hands-on laboratory work with industrial robots and NC machines. Independent study and report on a specific robot application. Prerequisites: CS 1341, PHYS 1403, and MATH 3313 or equivalent.

ME 5377 - Advanced Steel Design
Credits: 3
The behavior and design of steel structures, including general methods of plastic analysis, plastic moment distribution, steel frames, unbraced and braced frames, and composite construction. Prerequisite: ME 4350/CEE 4350.

ME 5383 - Heating, Ventilating, and Air Conditioning
Credits: 3
Covers the selection and design of basic refrigeration, air conditioning, and heating systems. Includes load

calculations, psychometrics, cooling coils, cooling towers, cryogenics, solar energy applications, and special topics. Prerequisites: ME 3332 and C or better in ME 2331/CEE 2331.

ME 5386 - Convection Heat Transfer
Credits: 3
Advanced topics in forced convection heat transfer using analytical methods and boundary-layer analysis. Also, laminar and turbulent flow inside smooth tubes and over external surfaces, convection processes in high-speed flows. Prerequisite: ME 3332 or equivalent.

ME 5390 - Special Projects
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, and/or development. The project and the supervising faculty must be approved by the chair of the department in which the student expects to receive the degree.

ME 5391 - Special Projects
Credits: 3
Intensive study of a particular subject or design project not available in regular course offerings and under the supervision of a faculty member approved by the department chair.

ME 5392 - Special Topics
Credits: 3
Intensive study of a particular subject not available in regular course offerings and under the instruction of a faculty member approved by the department.

ME 5393 - Special Topics
Credits: 3
Intensive study of a particular subject not available in regular course offerings and under the instruction of a faculty member approved by the department.

ME 5394 - Special Topics
Credits: 3
Intensive study of a particular subject not available in regular course offerings and under the instruction of a faculty member approved by the department.

ME 5395 - Special Topics
Credits: 3
Intensive study of a particular subject not available in regular course offerings and under the instruction of a faculty member approved by the department.

Multidisciplinary Studies

General Information

The multidisciplinary studies designation accommodates academic programs and courses that do not typically fit within the departments of the Lyle School of Engineering. Included in this area are courses designed for the Engineering Cooperative Education Program, Curricular Practical Training, engineering special topics and first-year students exploring engineering degree programs.

Design and Innovation Courses

DSIN 5301 - The Context and Impact of Design
Credits: 3
Focuses on a series of broad cultural topics through a design lens. Includes discussion and exploration of design topics that cut across eras, mediums, and scales. Emphasizes the idea of the intentionality of a design, as situated in its original context, as well as a design's continuing relevance to modern life.

DSIN 5302 - Form and Composition
Credits: 3
Introduces 2-D and 3-D design through assignments focused on the process of creating design work and receiving criticism. Includes overall design principles, 2-D graphic design, 3-D form making, and a culminating final assignment to utilize a full repertoire of design skills. Concentrates on design production with brief training on various digital and analog tools. Students do not need to have a design production background to complete the assigned projects.

DSIN 5303 - Human-Centered Design
Credits: 3
A fast-paced, project-based examination of human-centered design, which is a well-established process and set of methods aimed at devising solutions based on people's needs. Explores HCD's foundation in design research that emphasizes primary, contextual research such as interviews, observations, and adapted ethnographic methods, with a focus on empathy for the user and rapid prototyping to quickly express possible solutions. Prerequisite: Sophomore standing or above.

DSIN 5304 - Building Creative Confidence
Credits: 3
Focuses on traditional and nontraditional strategies, tools, and mind-shifts required for creativity. Students develop tactical skills to generate, express, and develop their ideas. Investigates the essential components of successful innovation and ways to overcome cultural and personal blocks against creativity. Work is individually produced. Prerequisite: Sophomore standing or above.

DSIN 5390 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

DSIN 5391 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

Engineering Courses

ENGR 1099 - Engineering Internship
Credits: 0
Represents a term of industrial work activity in connection with the Engineering Cooperative Program. Internship courses are taken in numerical sequence. Students register for this course in the same manner as for other SMU

courses except that no tuition is charged. Each course grade is determined by the student's written report and from the scoring of the employer's evaluation form.

ENGR 1101 - Engineering and Beyond
Credits: 1
Explores the five engineering departments at SMU and how the areas work together. Includes case studies, departmental presentations, industry panels, and industry tours.

ENGR 1199 - Engineering Internship
Credits: 1
Represents a term of practicum experience in the student's field of study. For students taking more than one internship course, internship courses are taken in numerical sequence. Tuition is charged for the course. The course grade is based on the student's written report due within 2 weeks of the final day of employment.

ENGR 1357 - Introduction to Engineering Design
Credits: 3
An introduction to engineering design methodologies and basic teaming skills is provided. Students participate on a team in a term-long multi-disciplinary design experience in which each student provides basic engineering capabilities in mechanical, software, electronic, civil and/or environmental systems. Each team designs a robot that achieves stated design objectives while operating autonomously, that is, with as little human interaction as possible. Each team makes a preliminary design presentation and report and a final design presentation and report. Students research the way the technologies used in the course impact society positively or negatively. A competition is held at the end of the term. Prerequisite or corequisite: MATH 1337 or MATH 1340.

ENGR 2099 - Engineering Internship
Credits: 0
Represents a term of industrial work activity in connection with the Engineering Cooperative Program. Internship courses are taken in numerical sequence. Students register for this course in the same manner as for other SMU courses except that no tuition is charged. Each course grade is determined by the student's written report and from the scoring of the employer's evaluation form.

ENGR 2199 - Engineering Internship
Credits: 1
Represents a term of practicum experience in the student's field of study. For students taking more than one internship course, internship courses are taken in numerical sequence. Tuition is charged for the course. The course grade is based on the student's written report due within 2 weeks of the final day of employment.

ENGR 2315 - Engineering and Design for the Developing World
Credits: 3
Engineering design in the developed world takes for granted the availability of several key resources such as construction material, water, and electricity. This course examines engineering design in the absence of these resources, with a focus on the development of shelter and sanitation in an efficient manner. Emphasis on understanding the total energy cycle of a structure and multiple alternative energy solutions. Additional topics include developing solutions for extreme low-cost, high-population densities and ecological sustainability. Students work in interdisciplinary teams to design and build energy-efficient homes and sustainable sanitation options and to investigate alternative energy systems. Prerequisite: PHYS 1303. Corequisites: ENGR 2320 and sophomore or above standing.

ENGR 3099 - Engineering Internship
Credits: 0
Represents a term of industrial work activity in connection with the Engineering Cooperative Program. Internship courses are taken in numerical sequence. Students register for this course in the same manner as for other SMU courses except that no tuition is charged. Each course grade is determined by the student's written report and from the scoring of the employer's evaluation form.

ENGR 3199 - Engineering Internship
Credits: 1
Represents a term of practicum experience in the student's field of study. For students taking more than one internship course, internship courses are taken in numerical sequence. Tuition is charged for the course. The course grade is based on the student's written report due within 2 weeks of the final day of employment.

ENGR 4099 - Engineering Internship
Credits: 0
Represents a term of industrial work activity in connection with the Engineering Cooperative Program. Internship courses are taken in numerical sequence. Students register for this course in the same manner as for other SMU courses except that no tuition is charged. Each course grade is determined by the student's written report and from the scoring of the employer's evaluation form.

ENGR 4199 - Engineering Internship
Credits: 1
Represents a term of practicum experience in the student's field of study. For students taking more than one internship course, internship courses are taken in numerical sequence. Tuition is charged for the course. The course grade is based on the student's written report due within 2 weeks of the final day of employment.

ENGR 5090 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5091 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5092 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5093 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5094 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5095 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5096 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5097 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5098 - Special Topics
Credits: 0
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5099 - Engineering Internship
Credits: 0
Represents a term of industrial work activity in connection with the Engineering Cooperative Program. Internship courses are taken in numerical sequence. Students register for this course in the same manner as for other SMU courses except that no tuition is charged. Each course grade is determined by the student's written report and from the scoring of the employer's evaluation form.

ENGR 5190 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5191 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5192 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5193 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5194 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5195 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5196 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5197 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5198 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5199 - Special Topics
Credits: 1
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5290 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5291 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5292 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5293 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5294 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5295 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5296 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5297 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5298 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5299 - Special Topics
Credits: 2
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5390 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5391 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5392 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5393 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5394 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5395 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5396 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5397 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5398 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

ENGR 5399 - Special Topics
Credits: 3
Individual or group study of selected topics in engineering. Prerequisite: Permission of instructor.

Operations Research and Engineering Management

Professor Sila Çetinkaya, **Chair**

Professors: Sila Çetinkaya, Halit Üster
Associate Professors: Richard S. Barr, Eli V. Olinick, Aurelie Thiele
Assistant Professors: Miju Ahn, Digvijay Boob, Eojin Han, Harsha Gangammanavar
Clinical Associate Professors: Michael Hahsler
Adjunct Faculty: Pelin Altintas-Deleon, Karl J. Arunski, Leslie-Ann Asmus, Robert L. Bell, William D. Bell, Yvone Bijan, Andrew F. Bouma, Hakki Cankaya, Gretchen H. Coleman, Long Dong, Matthew L. Durchholz, John R. Graham, III, Liliana Hickman-Riggs, Robert H. Jones, Rama Koganti, John I. Lipp, James K. McCloud, William P. Nanry, Rabih Neouchi, David Olszewski, Brett Schulman, Nandlal M. Singh, Gheorghe M. Spiride, Xinyu (Edward) Wang

General Information

The OREM Department brings together the school's technical management and operations areas to offer a Bachelor of Science with a major in management science. This program focuses on computer models for decision-making and the application of engineering principles and techniques to enhance organizational performance. Faculty specializations include optimization, advanced analytics, telecommunications network design and management, supply-chain systems, systems engineering, logistics, quality control, reliability engineering, data science, information engineering, benchmarking, operations planning and management, network optimization, and mathematical programming.

The same systems-oriented, mathematical-model-based approach that is the cornerstone of engineering also has powerful application within organizations and their operations. This is the field of management science – also termed "the science of better" – the discipline of applying advanced analytical methods to help make better decisions.

Additional Majors and the Accelerated Pathways Program

Because of the flexibility of the curriculum, the majority of management science majors choose to receive a second major or one or more minors from a wide range of other disciplines. Examples include a Bachelor of Science, a major in management science or a second bachelor's degree in economics, mathematics, business, computer science, history, psychology, Spanish or French.

Other management science majors continue their studies to obtain a Master of Science in Engineering Management, systems engineering, information engineering or operations research. The Accelerated Pathways program allows students to accelerate progress toward completion of a graduate degree.

More information on these and other options available to management science majors is available at www.smu.edu/Lyle/Departments/OREM. OREM faculty and advisers are also available to answer questions about the program.

Computing Facilities

Students in the OREM Department have access to a wide range of computing facilities and networking equipment. The department manages three PC-based computing labs, including the Enterprise Systems Design Laboratory created for students in the senior design course. General-use UNIX and Linux machines (including eight-processor 64-bit Xeon workstations) provide advanced computing, analytical software and Web hosting to all engineering students. Windows- and Linux-based PCs and workstations are the primary desktop equipment. All computing facilities are networked via high-speed Ethernet, with Gigabit Ethernet connections to Internet 1, Internet 2 and the National Lambda Rail research network. Open computing labs and wireless services provide additional facilities access points for students.

Curriculum in Management Science

Management science deals with the development of mathematically based models for planning, managing, operating and decision-making. In the OREM curriculum, these methods are also applied to the design and management of efficient systems for producing goods and delivering services.

A management scientist at a major airline would be concerned with building mathematical models to decide the best flight schedules, plane routes, and assignments of pilots and crews to specific flights and of flights to specific gates, as well as the best number of planes to own and operate, cities to fly to, cities to use as major hubs, layout for an airport terminal, overbooking policy and location to refuel aircraft. Optimal and good usable solutions for such issues can be uncovered through analysis with computer-based mathematical models. The management scientist develops an understanding of a practical decision problem, then designs and constructs a model that incorporates data from the MIS department and produces a high-quality solution.

Because of its generality, management science has broad applications in all engineering disciplines and in the fields of computer science, economics, finance, marketing, medicine, logistics, production, information engineering and statistics. Management science methods are used extensively in industry and government, and SMU's OREM program prepares the technically oriented student to excel in today's competitive business environment. ABET, https://www.abet.org, does not provide accreditation for the discipline of management science.

Management Science, B.S.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Mathematics (12 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra

- MATH 3315 - Introduction to Scientific Computing
  or
- STAT 3304 - Introduction to Statistical Computing

Science/Social Science (12 Credit Hours)

- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- ECO 1312 - Principles of Macroeconomics: Inflation, Recession, and Unemployment
- 3 hours in natural science from group 1
- 3 hours in natural science or technology from groups 1 and 2

Group 1:

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab

- CHEM 1303 - General Chemistry
- CHEM 1113 - General Chemistry Laboratory

- CHEM 1304 - General Chemistry
- CHEM 1114 - General Chemistry Laboratory

- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- GEOL 1315 - Introduction to Environmental Science

- PHYS 1303 - Introductory Mechanics
- PHYS 1105 - Mechanics Laboratory

- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1307 - General Physics I
- PHYS 1105 - Mechanics Laboratory

- PHYS 1308 - General Physics II
- PHYS 1106 - Electricity and Magnetism Laboratory

- PHYS 1320 - Musical Acoustics

Group 2:

- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology
- CEE 1301 - Environment and Technology: Ecology and Ethics
- CEE 1331 - Meteorology
- CEE 1378 - Transportation Infrastructure
- ECE 1301 - Modern Electronic Technology
- ECE 1350 - Introduction to Electrical and Computer Engineering
- ME 1301 - Machines and Society
- ME 1302 - Introduction to Mechanical Engineering
- ME 1303 - Energy, Technology, and the Environment

Major Concentration (51 Credit Hours)

- EMIS 1360 - Introduction to Management Science
- EMIS 2360 - Engineering Economy

- EMIS 3308 - Engineering Management
  or
- MNO 3370 - Management (for Cox B.B.A. majors and business administration minors only)

- EMIS 3309 - Information Engineering
- EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
- EMIS 3360 - Operations Research
- EMIS 3361 - Stochastic Models in Operations Research
- EMIS 3362 - Production and Operations Engineering
- EMIS 3363 - Discrete Event Simulation
- EMIS 4395 - Senior Design
- EMIS 5364 - Advanced Operations Research
- CEE 3302 - Engineering Communications

- CS 1340 - Introduction to Computing Concepts
  or
- CS 1341 - Principles of Computer Science

- CS 1342 - Programming Concepts
- 9 hours from EMIS courses at the 5000 level or above

Business (6 Credit Hours)

- ACCT 2301 - Introduction to Financial Accounting
- MKTG 3340 - Fundamentals of Marketing

Electives (15 Credit Hours)

Adviser must approve electives.

Total for the Major Only: 96 Credit Hours

Note: All management science majors must earn a grade of at least *C-* in all courses taken in fulfillment of the requirements for the major; however, a grade of *C* or better is required in all subset classes. All courses must be taken for a grade (not pass/fail), with the exception of those courses for which the student has received test credit.

Management Science Minor

For information on a minor in management science, the student should consult the department. The minor in management science operates concurrently with the B.S. degree. Students seeking a minor in management science must meet the same admission and subset requirements as students seeking a B.S. degree as described in the Admission to Advanced Standing section of this catalog, and they will be enrolled in the same sections of courses as B.S. management science majors.

Requirements for the Minor

A total of 15 credit hours (in addition to the required subset courses) are required for the minor in management science:

- EMIS 1360 - Introduction to Management Science
- EMIS 2360 - Engineering Economy
- EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
- EMIS 3360 - Operations Research
- MATH 3304 - Introduction to Linear Algebra

Total: 15 Credit Hours

Operations Research and Engineering Management Courses

EMIS 1300 - A Practical Introduction to Data Science
Credits: 3
Provides a first introduction to the exciting field of data science using applications and case studies from various domains (e.g., social media, marketing, sociology, engineering, digital humanities). Introduces data-centric thinking, including a discussion of how data is acquired, managed, manipulated, visualized, and used, to support problem-solving. The fundamental practical skills necessary are taught in class, and each step is illustrated with small examples. Tools presented in this course include SQL and Excel, along with other state-of-the-art tools. No prior knowledge of statistics, math, or programming is necessary.

EMIS 1305 - Computing Technology: Historical and Ethical Perspectives
Credits: 3
Introduces historical and ethical implications of computer architecture, software, hardware, telecommunications, and artificial intelligence. Develops business software skills and Internet concepts for research and communication applications. Credit is not allowed for a computer science, computer engineering, or management science major or minor.

EMIS 1307 - Information Technology for Business
Credits: 3
Focuses on the use of information technology in business; explains computer systems and component parts, terms used by technologists, and use of business software packages. No credit for EMIS majors or minors.

EMIS 1360 - Introduction to Management Science
Credits: 3
Management science is the application of mathematical modeling and scientific principles to solve problems and improve life in society. Students learn to develop plans, manage operations, and solve problems encountered in business and government. Prerequisite: Knowledge of college-level algebra. Corequisites: MATH 1337, CS 1341. Students are limited to a maximum of two enrollments in the course; medical withdrawals will be reviewed on a case by case basis.

EMIS 2360 - Engineering Economy
Credits: 3
Evaluation of engineering alternatives by equivalent uniform annual cost, present worth, and rate-of-return analysis. Use of a computerized financial planning system. Credit not allowed for both EMIS 2360 and EMIS 8361. Prerequisites: C- or better in MATH 1337 and knowledge of introductory probability and statistics. Corequisites: MATH 1338 and CS 1342 (must enroll in lab).

EMIS 2375 - Cultural and Ethical Implications of Technology
Credits: 3
Explores the pervasive use of technology in today's society, the impact of technology on daily life, and the tie between technology and ethical responsibility. Students learn how their lives are being shaped by technology and how they in turn help shape technology.

EMIS 3150 - Ethics in Computing
Credits: 1
Computer professionals have a special responsibility to ensure ethical behavior in the design, development, and use of computers and computer networks. This course focuses on the education of the undergraduate through the study of ethical concepts and the social, legal, and ethical implications involved in computing. Issues to be studied include computer crimes, software theft, hacking and viruses, intellectual property, unreliable computers, technology issues in the workplace, and professional codes of ethics. Prerequisite: Junior standing.

EMIS 3307 - Infrastructure and Environmental Systems Analysis
Credits: 3
Introduces students to basic analytical techniques commonly used in the conceptualization, planning, design, and operation management of large-scale civil and environmental infrastructure systems. Topics covered include conceptualization and planning of infrastructure projects; engineering economics and decision making; analytical techniques for infrastructure system design; life-cycle and risk analyses; and data analysis methodologies for infrastructure operation management. Prerequisite: CEE 1302. Prerequisite/Corequisite: STAT 4340 or STAT 4341.

EMIS 3308 - Engineering Management
Credits: 3
Examines planning, financial analysis, organizational structures, management of the corporation (including its products, services, and people), transfer of ideas to the marketplace, and leadership skills. Credit is not allowed for both EMIS 3308 and the same course offered by another department; credit is not allowed for both EMIS 3308 and EMIS 7351. Prerequisite: Junior standing. Lyle undergraduate majors only.

EMIS 3309 - Information Engineering
Credits: 3
Emphasizes working with data, databases, and performing and interpreting descriptive analytics in the context of contemporary, data–rich decision making environments including various engineering and management applications. Introduces the use of databases (database management systems and SQL) and discusses the functions of practical (e.g., corporate or public) data warehouses while placing a strong emphasis on formal methods of descriptive analytics including data preparation, visualization, and interpretation. Prerequisites: Junior standing, Lyle majors only, C- or better in CS 1341 and EMIS 3340/CS 4340/STAT 4340.

EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
Credits: 3
Basic concepts of probability and statistics useful in the solution of engineering and applied science problems. Topics include probability, probability distributions, data analysis, sampling distributions, estimations, and simple tests of hypothesis. Credit is not allowed for both EMIS 3340/STAT 4340/CS 4340 and EMIS 5370. Prerequisite: C- or better in MATH 1338 or equivalent.

EMIS 3360 - Operations Research
Credits: 3
A survey of models and methods of operations research. Covers deterministic models in a variety of areas. Credit is not allowed for both EMIS 3360 and EMIS 8360. Must enroll in lab. Corequisite: MATH 3304. Prerequisite: C- or better in EMIS 1360. Management science majors, management science minors, or math operations research specialization majors only.

EMIS 3361 - Stochastic Models in Operations Research
Credits: 3
Covers the formulation, solution, and application of models for decision–making under uncertainty. Probabilistic and statistical methodologies (e.g., decision analysis, queuing theory, stochastic process, Markov chains, and simulation models) address problems in the design, management, and usage of efficient systems for producing goods and delivering services. Students use specialized software and spreadsheet add–ins for model–building and problem–solving. Weekly 1–hour, 20–minute laboratory. Prerequisite: C– or better in EMIS 3340. Corequisite: MATH 3304. Management science majors only.

EMIS 3362 - Production and Operations Engineering
Credits: 3
Applies the principles of engineering, or "design under constraint," to modern production systems. Topics include production systems analysis and design considerations, system design and optimization models and methods, pull- and push-based production systems, quality engineering, and process improvement. Also, techniques for engineering and managing systems with specific architectures: batch-oriented, continuous-flow, projects, and just-in-time. Prerequisite: C- or better in EMIS 3360. Management science or math operations research specialization majors only. Credit is not allowed for both EMIS 3362 and EMIS 7362.

EMIS 3363 - Discrete Event Simulation
Credits: 3
Introduction to the design and analysis of discrete probabilistic systems using simulation. Emphasizes model construction and a simulation language. Prerequisites: Programming ability and knowledge of introductory probability or statistics. Corequisite: EMIS 3361. Reserved for management science majors. Credit is not allowed for both EMIS 3363 and EMIS 7361.

EMIS 4390 - Undergraduate Project
Credits: 3
An opportunity for the advanced undergraduate student to undertake independent investigation, design, or development. Written permission of the supervising faculty member is required before registration.

EMIS 4395 - Senior Design
Credits: 3
Consists of a large project involving the design of a management system, model building, data collection and analysis, and evaluation of alternatives. Prerequisites: Reserved for management science majors; C- or better in EMIS 3362 and senior standing.

EMIS 5050 - Undergraduate Internship
Credits: 0

EMIS 5190 - Special Topics
Credits: 1
Individual or group study of selected topics in management science. Prerequisite: Permission of instructor.

EMIS 5290 - Special Topics
Credits: 2
Individual or group study of selected topics in management science. Prerequisite: Permission of instructor.

EMIS 5300 - Systems Analysis Methods
Credits: 3
Introduction to modeling and analysis concepts, methods and techniques used in systems engineering, design of products and associated production, and logistics systems and analysis of operational system performance. Specific topics include probabilistic and statistical methods, Monte Carlo simulation, optimization techniques, applications of utility and game theory, and decision analysis. Reserved for Lyle majors. EMIS 5300 cannot be used to fulfill degree requirements for the Bachelor of Science in Management Science.

EMIS 5301 - Systems Engineering Process
Credits: 3
Examines the discipline, theory, economics, and methodology of systems engineering. Reviews the historical evolution of the practice of systems engineering and the principles that underpin modern systems methods. Emphasizes the economic benefits of investment in systems engineering and the risks of failure to adhere to sound principles. Develops an overview perspective distinct from the traditional design– and analytical–specific disciplines. Reserved for Lyle majors.

EMIS 5303 - Integrated Risk Management
Credits: 3
Introduction to risk management based upon integrated trade studies of program performance, cost, and schedule requirements. Topics include risk planning, risk identification and assessment, risk handling and abatement techniques, risk impact analysis, management of risk handling and abatement, and subcontractor risk management. Examines integrated risk management methods, procedures, and tools. Prerequisite: EMIS 5301.

EMIS 5305 - Systems Reliability and Availability Analysis
Credits: 3
Reliability and availability modeling and analysis methods are applied to perform cost–effectiveness analysis during development of aerospace and defense systems, as well other types of systems. Topics include systems reliability and availability models and analysis methods; requirements analysis to determine fleet size; system effectiveness and life cycle cost analysis methods; and analysis of systems mission reliability, sustainment reliability and systems availability, both inherent and operational, during design and development of a product and associated support system. Prerequisite: EMIS 3361 or EMIS 5300.

EMIS 5307 - Systems Integration and Test
Credits: 3
Examines the process of successively synthesizing and validating larger and larger segments of a partitioned system within a controlled and instrumented framework. System integration and test is the structured process of building a complete system from its individual elements and is the final step in the development of a fully functional system. Stresses the significance of structuring and controlling integration and test activities. Presents formal methodologies for describing and measuring test coverage, as well as sufficiency and logical closure for test completeness. Discusses interactions with system modeling techniques and risk management techniques. Based upon principles of specific engineering disciplines and best practices, which form a comprehensive basis for organizing, analyzing, and conducting integration and test activities. Prerequisite: EMIS 5301.

EMIS 5309 - Systems Reliability Engineering
Credits: 3
An in-depth coverage of processes, tasks, methods, and techniques for achieving and maintaining the required level of system reliability considering operational performance, customer needs, and affordability. Topics include establishing systems reliability requirements; reliability program planning; system reliability modeling and analysis; system reliability design guidelines and analysis; system reliability test and evaluation; and maintaining inherent system reliability during production and operation. Prerequisite: EMIS 3340/STAT 4340 or EMIS 5300.

EMIS 5311 - Systems Engineering Design
Credits: 3
An introduction to system design of complex hardware and software systems. Includes design concept, design characterization, design elements, reviews, verification and validation, threads and incremental design, unknowns, performance, management of design, design metrics, and teams. Centers on the development of real-world examples. Prerequisite: EMIS 5301.

EMIS 5313 - Integrated Logistics Support
Credits: 3
Integrated Logistics Support is an integrated and iterative process to influence product design for supportability and design and develop the support (logistics) system concurrently with design and development of the product as an integral element of the systems engineering process. Topics include product design interface for reliability, maintainability and maintenance (such as preventive, predictive and corrective) planning and support system development consisting of supply support; support and test equipment; manpower and personnel; training and training support; technical data/publications; computer resources support; facilities; and packaging, handling, storage, and transportation (PHS&T). Prerequisites: EMIS 5305 and EMIS 5311.

EMIS 5315 - Systems Quality Engineering
Credits: 3
An introduction to concepts, activities, processes, and methods as an integral part of the systems engineering process for developing, producing, and sustaining products that meet customer quality needs. Topics include establishing program and product quality requirements and methods for achieving product quality requirements during design, development and production, voice of the customer analysis, analysis of product design tolerances, six-sigma techniques, statistical analysis of process capability, statistical process control using control charts, acceptance sampling, and quality improvement. Prerequisite: EMIS 5301.

EMIS 5317 - Systems Engineering Leadership
Credits: 3
Augments the management principles embedded in the systems engineering process with process design and leadership principles and practices. Places emphasis on leadership principles by introducing the underlying behavioral science components, theories, and models. Demonstrates how the elements of systems engineering, project management, process design, and leadership integrate into an effective leadership system. Prerequisite: EMIS 5301.

EMIS 5331 - Data Mining
Credits: 3
Introduces data mining techniques (classification, association analysis, and cluster analysis) used in analytics. All material covered is reinforced through hands-on experience using state-of-the art tools to design and execute data mining processes. Prerequisites: CS 1342, CS 4340/EMIS 3340/STAT 4340, and EMIS 3309 or CS 3330. Reserved for Lyle majors.

EMIS 5352 - Information System Architecture
Credits: 3
The architecture of an information system (IS) defines that system in terms of components and interactions among those components. This course addresses IS hardware and communications elements for information engineers, including computer networking and distributed computing. It addresses the principles, foundation technologies, standards, trends, and current practices in developing an appropriate architecture for Web-based and non-Internet information systems. Reserved for Lyle majors.

EMIS 5353 - Information System Design Strategies
Credits: 3
Surveys the fundamentals of software engineering and database management systems for information engineers. Covers the principles, foundation technologies, standards, trends, and current practices in data-centric software engineering and systems design, including object-oriented approaches and relational DBMS. Focuses on system design, development, and implementation aspects, and not the implementation in code. Prerequisite: Reserved for Lyle majors.

EMIS 5356 - Decision Analysis for Engineers
Credits: 3
Focuses on the study and application of different methodologies to support managerial decision-making. Introduces concepts from decision analysis, game theory, and systems management. Emphasizes the analysis of complex decision problems, involving uncertainty, risk, multiple objectives, and/or multiple stakeholders. Prerequisites: Knowledge of introductory probability and statistics; EMIS 2360.

EMIS 5357 - Analytics for Decision Support
Credits: 3
In a rapidly changing, complex environment, successful enterprises make mission-critical choices using decision-support systems, which apply analytical methods to massive organizational data sets to evaluate options, give insight to likely outcomes, and make recommendations of the "best" decisions to pursue. Course topics include 1) framing and understanding decision-making needs and processes to define, evaluate, and identify appropriate strategic, operational, or execution-level decisions; 2) identifying, collecting, and managing large-scale data needed for decision support; and 3) employing decision-support software in areas such as optimization and data mining. Prerequisite: Reserved for Lyle majors.

EMIS 5360 - Management of Information Technologies
Credits: 3
Defines the management activities of the overall computer resources within an organization or government entity. Consists of current topics in strategic planning of computer resources, budgeting and fiscal controls, design and development of information systems, personnel management, project management, rapid prototyping, and system life cycles. Reserved for Lyle majors.

EMIS 5364 - Advanced Operations Research
Credits: 3
Covers advanced topics pertaining to formulations, solution methods and applications of integer programming, non-linear programming, and dynamic programming. Covers methods in metaheuristics and formulation and solutions procedures for problems arising in game theory. Students must enroll in a laboratory section where specialized software for modeling and solving is introduced. Prerequisites: C- or better in EMIS 3360.

EMIS 5365 - Program and Project Management
Credits: 3
Development of principles and practical strategies for managing projects and programs of related projects for achieving broad goals. Topics include planning, organizing, scheduling, resource allocation, strategies, risk management, quality, communications, tools, and leadership for projects and programs. Prerequisite: Reserved for Lyle majors.

EMIS 5366 - Marketing Engineering
Credits: 3
Marketing engineering moves beyond traditional conceptual approaches to embrace the use of analytics, data, information technology, and decision models to help organizations effectively reach customers and make marketing decisions. Designed for technical individuals, the course applies engineering problem–solving approaches and computer tools to solve marketing problems from today's competitive work environment. Prerequisites: C– or better in EMIS 3360 (or equivalent) and EMIS 3340 (STAT 4340/CS 4340).

EMIS 5377 - Statistical Design and Analysis of Experiments
Credits: 3
Introduces statistical principles in the design and analysis of industrial experiments. Covers completely randomized, randomized complete and incomplete block, Latin square, and Plackett–Burman screening designs; complete and fractional factorial experiments; descriptive and inferential statistics; analysis of variance models; and mean comparisons. Prerequisites: C– or better in EMIS 3340 (STAT 4340 / CS 4340) and senior standing with a science or engineering major, or permission of instructor.

EMIS 5390 - Special Topics
Credits: 3
Individual or group study of selected topics in management science. Prerequisite: Permission of instructor.

Meadows School of the Arts

General Information

The Meadows School of the Arts educates visionary artists, scholars, and arts and communication professionals so that they may have a sustainable, transformative impact on both local and global society.

Founded through the generosity of Algur H. Meadows, his family and the Meadows Foundation, the Meadows School is recognized as one of the nation's premier arts schools. It offers intense, specialized education in the communication, performing and visual arts to arts majors, and provides a rich variety of coursework for students from other disciplines exploring the arts as part of their liberal arts education.

In addition to working closely with a nationally renowned faculty, Meadows students have access to many eminent visiting professors, artists and scholars, as well as the annual winners of the Meadows Prize. The Meadows School also offers one of the nation's finest university complexes for instruction, performance and exhibition in advertising, art, art history, arts management and arts entrepreneurship, corporate communication and public affairs, creative computation, dance, film and media arts, journalism, music, and theatre.

Facilities

Academic, Performance and Exhibition Spaces

The Owen Arts Center houses the Greer Garson Theatre (a classical thrust stage), the Bob Hope Theatre (a proscenium theatre), the Margo Jones Theatre (a black box theatre), Caruth Auditorium (which includes a 51-stop, 3,681-pipe Fisk organ), the Charles S. Sharp Performing Arts Studio, the O'Donnell Lecture-Recital Hall and several smaller performance spaces, as well as classrooms, studios and rehearsal areas. The Doolin Gallery in the Owen Arts Center and the Pollock Gallery, housed on SMU's East Campus, are the art exhibition spaces of the Division of Art. Student work is exhibited and critiqued in the Doolin Gallery. Exhibitions organized in the Pollock Gallery provide students, faculty, staff and the community with opportunities to experience a thoughtful and wide array of exhibitions representing diverse artists, time periods and cultures.

The Meadows Museum exhibits one of the finest and most comprehensive collections of Spanish art outside of Spain, including works of such masters as El Greco, Velázquez, Ribera, Montañes, Murillo, Goya, Sorolla, Picasso, Gris, Miró and Tápies. The Elizabeth Meadows Sculpture Collection includes important works by such modern sculptors as Rodin, Maillol, Lipchitz, Henry Moore, Marini, Giacometti, Noguchi, David Smith and Claes Oldenburg.

The Umphrey Lee Center serves as home to several of the communication arts areas, including a journalism complex that houses a high-definition television studio, a control room, computer labs and editing suites.

The four-story Jake and Nancy Hamon Arts Library is adjacent to the Owen Arts Center and houses all arts library collections, the Lady Tennyson d'Eyncourt Visual Resources Laboratory, an audio/visual center and the Mildred Hawn Exhibition Gallery. The G. William Jones Film and Video Collection, a part of the library's holdings, is housed in the Greer Garson Theatre's 3,800-square-foot refrigerated storage vault. The Bywaters Special Collections hold works on paper and archival materials illuminating the cultural history of the Southwest.

Center of Creative Computation

The Center of Creative Computation is an interdisciplinary research and teaching center exploring computation as a universal, generative medium that integrates creative development, quantitative analysis and interdisciplinary synthesis. The center offers a major and minor in creative computing, combining core coursework from the fine and performing arts with creative coding and digital hybrid media. The center sponsors student and faculty fellowships, workshops and lectures, and facilitates interdisciplinary creative development and research. Examples of projects include hardware and software development, digital media/arts production, visualization, AR/VR, gaming, interactive performance, intermedia practice, digital humanities, and pedagogical development

Ignite/Arts Dallas

Ignite/Arts Dallas aims to connect the Meadows School to the city of Dallas by using the arts to foster a network of diverse communities and introducing students to the arts' critical role in social engagement.

SMU DataArts

SMU DataArts, the first of its kind in the nation, acts as a catalyst for the transformation and sustainability of the national arts and cultural community. The center analyzes the largest database of arts research ever assembled and makes its findings available free of charge to arts leaders, funders, policymakers, researchers, students and the general public.

The mission of SMU DataArts is to empower arts and cultural leaders with high-quality data and evidence-based resources and insights that help them to overcome challenges and increase impact. The scope of this work requires the collaboration of multiple national organizations such as the National Endowment for the Arts, the National Assembly of State Arts Agencies, Theatre Communications Group, TRG Arts, the League of American Orchestras, OPERA America, and the Boston Consulting Group. More information is available at www.smu.edu/artsresearch.

Meadows School of the Arts and the Liberal Arts Education

All first-year undergraduates spend at least one year as SMU Pre-Majors before transferring officially to Meadows. Students are assigned an academic adviser in the University Advising Center based on their intended majors. Arts students have advisers who specialize in those disciplines. In the first year, students combine liberal arts courses with the introductory course requirements of their intended major. After entering Meadows, normally in the sophomore year, students continue to combine courses in the major with Common Curriculum requirements.

Meadows Academic Units

The Meadows School consists of 11 undergraduate and graduate academic units. Each is outlined in detail in individual sections of this publication. They are as follows:

Temerlin Advertising Institute for Education and Research
Art
Art History
Arts Management and Arts Entrepreneurship
Corporate Communication and Public Affairs
Center of Creative Computation
Dance
Film and Media Arts
Journalism
Music
Theatre

Programs of Study

Bachelor of Arts

-Advertising
-Art
-Art History
-Corporate Communication and Public Affairs
-Creative Computing
-Fashion Media
-Film and Media Arts
-Interdisciplinary Studies in the Arts
-Journalism
-Music
-Public Relations and Strategic Communication

Bachelor of Fine Arts

-Art
-Dance
-Film and Media Arts
-Theatre

Bachelor of Music

-Music Composition
-Music Education (*includes Texas teacher certification*)
-Music Performance
-Music Therapy (*approved by the Amer. Music Therapy Association; leads to eligibility to sit for Music Therapy Board Certification exam*)

Academic Minors

University students may complete a minor in various divisions within Meadows School of the Arts. The minor will be noted on the student's transcript. Interested students should contact the office of the academic dean of their school of record for procedures concerning minor declaration. The minors are as follows:

Advertising
Art
Art History
Arts Entrepreneurship
Arts Management
Dance Performance
Graphic Design
Journalism
Music
Music Industry Practices

Corporate Communication and Public Affairs	Photography
Creative Computing	Songwriting

Admission

Various academic units in Meadows School of the Arts have special admissions criteria such as auditions, portfolio reviews and specified coursework that are in addition to meeting general University admission criteria. Admissions criteria pertinent to each instructional unit are stated in the section of this publication devoted to that unit.

Admission Procedures

Prospective students interested in undergraduate degrees in Meadows School of the Arts apply for undergraduate admission to SMU as first-year students or transfer students through the SMU Division of Enrollment Services, Office of Undergraduate Admission, PO Box 750181, Dallas TX 75275-0181 or online at https://www.smu.edu/Admission/Apply. Application deadlines and information on performing and visual arts consideration are in the Admission section of this catalog.

Applicants interested in undergraduate degrees in music, dance, theatre, film and media arts (B.F.A) or art are considered "dual-admit" applicants and must apply and be accepted to SMU and must also apply to Meadows School of the Arts, audition (music, dance, theatre) or submit a portfolio (film B.F.A., art), and be accepted by Meadows School of the Arts in order to pursue degrees in those areas. Application deadlines and information on the dual-admit performing and visual arts consideration are in the Admission section of this catalog.

Applicants interested in pursuing a degree in advertising must first apply and be accepted to SMU, take two prerequisite courses their first year as an SMU student, then in the spring semester apply for admission to the Temerlin Advertising Institute. Admission requirements to the Temerlin Advertising Institute can be found in the Meadows School of the Arts section of this catalog.

Admission as an SMU Interschool Transfer Student

SMU students enter as pre-majors and then transfer to Meadows School of the Arts when they complete requirements for the major declaration. A student transferring to the Meadows School from Dedman College (or other schools of the University) must secure a Student Change of Degree Program form from the academic records office of the student's current school to present to the Student Academic Services Office of Meadows School of the Arts.

Students must have completed a minimum of 24 credit hours of study, including successful completion of the WRTR sequence through WRTR 1312 (or its equivalent), with a minimum cumulative GPA of 2.000. Students in various academic units also must receive formal recognition of suitable scholarly or creative ability and talent in the performing arts.

Advertising, corporate communication and public affairs, film and media arts (B.A. only), and journalism students must successfully complete the prerequisite subset of courses with the appropriate GPA to be admitted to their degree programs. Advertising students must additionally complete a written on-site application to the program.

Art students who were not dually admitted prior to matriculation must take three 1300-level courses and then meet with their pre-major advisor in order to declare the B.A. in Art. Art students who were not dually admitted prior to matriculation must take four 1300-level courses and then meet with their pre-major advisor in order to declare the B.F.A. in Art.

Art history students are strongly encouraged to contact the chair of the Art History Department for a conference.

Students interested in pursuing the B.F.A. in film and media arts must submit a portfolio online (see details at smu.edu/filmadmission). The portfolio must include at least one film/video sample in which the student was a primary creative voice (such as writer or director), and no more than five works.

Students in dance, music and theatre will have auditioned/interviewed prior to entering SMU.

Admission as an External Transfer Student

Students applying for admission to Meadows School of the Arts by transfer from another accredited educational institution should request a transfer application from the Division of Enrollment Services. Transfer applicants who have completed 30 transferable hours with a GPA of 2.700 or better are often successful in gaining admission to the University. Once admitted, a transfer student must be prepared to earn at least 60 hours of credit through enrollment at SMU. That is, 60 hours of credit must be earned in SMU courses or SMU-approved international programs.

Transfer credit is not given for work completed at a non-accredited school. Only grades of C- or better in comparable courses are transferable to SMU.

Transfer into Meadows School of the Arts is not automatic. Consideration is also given to creative or scholarly potential for the program to be undertaken and to particular talent in performing areas. Admissions criteria pertinent to each instructional unit also must be satisfied.

Readmission

Students should contact the Division of Enrollment Services, Office of Undergraduate Admission regarding readmission. A student who has been readmitted after an absence of more than three years will be expected to meet all current requirements for graduation. Dance, music or theatre students may also be required to re-audition. Detailed information is in the Admission to the University, Readmission of Students section of this catalog.

Undergraduate Student Financial Aid

For many SMU students, scholarships and other aid make the cost of attending a distinguished university no more, and often less, taxing on their families' financial resources than attending a public university. More than 75 percent of SMU students receive some type of financial aid. More information is available in the Student Financial Aid section of this catalog or through the Division of Enrollment Services, Office of Financial Aid: www.smu.edu/financial_aid, phone 214-768-3417.

SMU has a generous program of merit scholarships, grants, loans and part-time jobs to recognize academic achievement and talent in specific fields and to meet financial need.

Meadows Undergraduate Artistic Scholarships

The divisions and centers comprising Meadows School of the Arts annually award scholarships for outstanding achievement in a particular discipline. Candidacy for scholarship considerations may require an audition, review and/or interview. No student with ability should hesitate to apply to SMU and Meadows because of financial need.

For information regarding artistic scholarships, please visit our website: smu.edu/affordmeadows.

To receive primary consideration for all SMU merit scholarships and other aid, students should comply with the following schedule:

By January 15

- Complete the SMU Application for Admission.
- Submit the Free Application for Federal Student Aid at www.fafsa.ed.gov and the CSS/Financial Aid Profile at www.collegeboard.org.

By March 1

- Complete auditions and/or interviews.

Degree Requirements

Requirements for the Major

Candidates for undergraduate degrees must complete the requirements for an academic major in one of the academic units in Meadows. Students usually declare a major at the end of the first year. Students may major in more than one program within Meadows or combine a major in Meadows with one in a different school. All course-work counting toward a major must be taken for a letter grade, except for those courses that are routinely designated as pass/fail. Students must process appropriate forms available from the Meadows Student Academic Services Office to change majors or declare a second major.

University-wide Requirements

University-wide requirements (Common Curriculum) must be met by all undergraduate students, regardless of degree program or major. All courses used to meet University-wide requirements must be taken for a letter grade, unless the course is offered only on a pass/fail basis. Questions concerning University Curriculum requirements may be directed to the Student Academic Services Office.

Double Majors

A student who wishes to double major (pursue majors in two departmental areas or in two schools) must satisfy the requirements of each department or school.

Requirements for Graduation

Students who are candidates for a degree in Meadows School of the Arts must submit a formal application for graduation to the Student Academic Services Office by the end of the first week of class for December and May graduation, and by the second day of summer school for August graduation. In addition to University-wide requirements and requirements for the major, candidates for graduation must also fulfill the following requirements:

1. Credits:
   A minimum total of 120 credit hours. Additional credit hours are required by some programs as needed to fulfill University-wide requirements.
2. Grades:
   a. A minimum cumulative GPA of 2.000 on all attempted SMU work and a minimum 2.000 GPA in the major area of study.
   b. A maximum of 12 credit hours at the student's election with a grade of P (Pass).
3. Credit Requirements:
   a. A minimum total of 60 credit hours through enrollment at SMU.
   b. A maximum of 30 credit hours of transfer work after matriculation.

A degree from Meadows School of the Arts is awarded by the faculty only in recognition of developed abilities, demonstrated knowledge of the student's particular field of study and the capacity to express an understanding of the art medium. Merely passing all courses is not necessarily sufficient.

Graduation Honors

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

Commencement Activities Prior to Completion of Degree Requirements

Participation in May graduation activities is allowed for students who are within six hours of completing graduation requirements and are enrolled to complete all degree requirements during the summer following graduation activities. Students who meet the above requirements may petition to participate in commencement activities.

Advertising

Temerlin Advertising Institute for Education and Research

Professor of Practice Gordon Law, **Director** *ad interim*

Professors: Patricia Alvey, Steven Edwards, Alice Kendrick, Carrie La Ferle
Associate Professor: Sidharth Muralidharan
Assistant Professor: Ouan Xie
Lecturers: Mark Allen, Cheryl Mendenhall
Professors of Practice: Willie Baronet, Gordon Law, Peter Noble
Adjunct Lecturers: Marie Bos, David Hadeler, John Hall, Bryon Morrison, Jason Shipp, Cindy Sparrow, Cindy Syracuse

General Information

The Temerlin Advertising Institute was endowed by the Dallas advertising community through a pledge to augment scholarships, faculty salaries and public programs that enrich student learning and practical experience in advertising. Established in 2001, it is one of the nation's only endowed advertising institutes. The institute enjoys a strong relationship with the industry, as it is situated in a top media and advertising market – the Dallas/Fort Worth Metroplex. This location affords access to professionals of the highest caliber who serve as class clients, guest lecturers, executives-in-residence, adjunct faculty and internship sponsors. Students have access to high-profile internships at national and global agencies as well as client and media corporations. All undergraduate students admitted to the institute work toward a B.A. degree in advertising. Students wishing to pursue a master's degree in advertising may apply to the graduate program. Additional information is available online at www.smu.edu/temerlin ("Graduate Studies" link) or in the Meadows School of the Arts graduate catalog.

Admission Requirements

For students wishing to pursue a B.A. in advertising at SMU, admission into the Temerlin Advertising Institute is a two-step process.

STEP ONE: Students must have completed or be enrolled in ADV 1300 and at least one introductory concentration course (ADV 1321, ADV 1331 or ADV 1341). For the best preparation for step two of the admission process, it is strongly recommended that students have completed or are enrolled in the introductory concentration course for the concentration for which they are applying. Students must also be in good academic standing with the University with a minimum cumulative GPA of 2.000. Students transferring from other universities must have completed equivalent courses before they can progress to step two.

STEP TWO: Advertising major candidates who have fulfilled or are fulfilling step one also must complete an application for the concentration area(s) in which they are interested. The application is offered during the spring term only. Students who are not admitted during an application process may reapply during the next application period. Dates, times and location are posted at www.smu.edu/temerlin.

Advertising, B.A.

Admission Requirements

For students wishing to pursue a B.A. in advertising at SMU, admission into the Temerlin Advertising Institute is a two-step process.

STEP ONE: Students must complete ADV 1300 and at least one introductory concentration course (ADV 1321, ADV 1331 or ADV 1341). For the best preparation for step two of the admission process, it is strongly recommended that students have completed or are enrolled in the introductory concentration course for the concentration for which they are applying. Students must also be in good academic standing with the University with a minimum cumulative GPA of 2.000. Students transferring from other universities must have completed equivalent courses before they can progress to step two.

STEP TWO: Advertising major candidates who have fulfilled or are fulfilling step one also must complete an application for the concentration area(s) in which they are interested. The application is offered during the spring

term only. Students who are not admitted during an application process may reapply during the next application period. Dates, times and location are posted at www.smu.edu/temerlin.

The Temerlin Advertising Institute offers students pursuing a B.A. in advertising the opportunity to focus their studies in one of three areas: creative, digital media strategy or strategic brand management. Students must apply to both the major and a concentration concurrently. Students may apply to more than one area of concentration but will be admitted to only one. All SMU advertising students are required to take a core set of advertising courses that includes survey, society and ethics, consumer behavior, research, media, business communication, professional seminar, and campaigns. In addition, advertising majors must declare and complete a second major or a minor outside of advertising. Because SMU is in the center of a dynamic U.S. advertising market, many students participate in internships for course credit.

The creative program prepares students to enter the world of advertising and marketing as art directors and copywriters. The curriculum covers all aspects of content creation for communicating a brand's identity to consumers. Courses focus on conceptual thinking, approaches to ideation, the creative process, discovery and execution of the big idea, and communicating information in an effective way across a variety of traditional and digital media. Students will learn to create compelling work, present and justify their ideas, and develop a personal aesthetic.

The digital media strategy program prepares students to enter the world of advertising and marketing as digital producers, digital strategists, content managers and media specialists. Marketing in the digital age means understanding when and where to communicate to consumers when they are most receptive to receiving and sharing messages. Students admitted to the concentration will learn to maximize consumers' engagement with marketing messages using paid, owned and earned media to achieve this goal.

The strategic brand management program prepares students to enter the world of advertising and marketing as account or brand managers, project managers, planners/strategists, consumer insight experts, event and promotion specialists, and new business developers. This concentration examines the approaches to management in advertising agencies and on the client side. Topics include strategies for the identification of marketing-related problems and the processes needed to find solutions through messaging, promotions and other forms of consumer engagement to build brand equity and market share. Students learn how to think critically, work collaboratively in an interdisciplinary environment, develop strategy, hone their communication skills, assess the metrics of their work and present concepts in an engaging way.

Courses for each concentration must be taken in sequence.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Prerequisite Course (3 Credit Hours)

- ADV 1300 - Survey of Advertising

Required Advertising Courses (31 Credit Hours)

- ADV 1321 - Introduction to Creativity
- ADV 1331 - Digital Media Landscapes

- ADV 1341 - Marketing Principles of Advertising
  or
- MKTG 3340 - Fundamentals of Marketing

- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior
  or
- MKTG 3343 - Consumer Behavior

- ADV 2302 - Advertising, Society, and Ethics
- ADV 3303 - Advertising Media
- ADV 3304 - Advertising Research

- ADV 3305 - Business Communication
  or
- BLI 3302 - Business Communications and Leader Development *(for double majors in advertising and marketing/business)*

- ADV 4106 - Professional Seminars
- ADV 4399 - Advertising Campaigns

Concentration Courses (15 Credit Hours)

Advertising majors must complete one of the following sets of concentration courses according to the concentration to which they were admitted.

Creative Concentration Courses

- ADV 2322 - Concepting
- ADV 3322 - Portfolio
- ADV 3323 - Introduction to Graphic Design
- Any six additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended electives for the creative concentration include ADV 4322 - Advanced Portfolio and ADV 4323 - Copywriting.)

Digital Media Strategy Concentration Courses

- ADV 2332 - Digital Media Strategy 1
- ADV 3332 - Digital Media Strategy 2
- Any nine additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended electives for the digital media strategy concentration include ADV 2333 - Internet and Mobile Advertising, ADV 3333 - Measurement and Metrics, and ADV 4333 - Topics in Digital Media Marketing.)

Strategic Brand Management Concentration Courses

- ADV 2342 - Strategic Brand Management 1
- ADV 3342 - Strategic Brand Management 2
- Any nine additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended electives for the strategic brand management concentration include ADV 2343 - International Advertising, ADV 3343 - Advertising Account Planning, and ADV 4343 - Strategic Promotion Management.)

Second Major or Minor Choice

Hours vary according to choice.

Total for the Major Only: 46 Credit Hours

Advertising, B.A. with a Specialization in Creative

Admission Requirements

For students wishing to pursue a B.A. in advertising at SMU, admission into the Temerlin Advertising Institute is a two-step process.

STEP ONE: Students must complete ADV 1300 and at least one introductory concentration course (ADV 1321, ADV 1331 or ADV 1341). For the best preparation for step two of the admission process, it is strongly recommended that students have completed or are enrolled in the introductory concentration course for the concentration for which they are applying. Students must also be in good academic standing with the University with a minimum cumulative GPA of 2.000. Students transferring from other universities must have completed equivalent courses before they can progress to step two.

STEP TWO: Advertising major candidates who have fulfilled or are fulfilling step one also must complete an application for the concentration area(s) in which they are interested. The application is offered during the spring term only. Students who are not admitted during an application process may reapply during the next application period. Dates, times and location are posted at www.smu.edu/temerlin.

The Temerlin Advertising Institute offers students pursuing a B.A. in advertising the opportunity to focus their studies in one of three areas: creative, digital media strategy or strategic brand management. Students must apply to both the major and a concentration concurrently. Students may apply to more than one area of concentration but will be admitted to only one. All SMU advertising students are required to take a core set of advertising courses that includes survey, society and ethics, consumer behavior, research, media, business communication, professional seminar, and campaigns. In addition, advertising majors must declare and complete a second major or a minor outside of advertising. Because SMU is in the center of a dynamic U.S. advertising market, many students participate in internships for course credit.

The creative program prepares students to enter the world of advertising and marketing as art directors and copywriters. The curriculum covers all aspects of content creation for communicating a brand's identity to consumers. Courses focus on conceptual thinking, approaches to ideation, the creative process, discovery and execution of the big idea, and communicating information in an effective way across a variety of traditional and digital media. Students will learn to create compelling work, present and justify their ideas, and develop a personal aesthetic. The creative specialization courses must be taken in sequence.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Creative

Prerequisite Course (3 Credit Hours)

- ADV 1300 - Survey of Advertising

Required Advertising Courses (31 Credit Hours)

- ADV 1321 - Introduction to Creativity
- ADV 1331 - Digital Media Landscapes

- ADV 1341 - Marketing Principles of Advertising
  or
- MKTG 3340 - Fundamentals of Marketing

- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior

or
- MKTG 3343 - Consumer Behavior

- ADV 2302 - Advertising, Society, and Ethics
- ADV 3303 - Advertising Media
- ADV 3304 - Advertising Research

- ADV 3305 - Business Communication
  or
- BLI 3302 - Business Communications and Leader Development (for double majors in advertising and marketing/business)

- ADV 4106 - Professional Seminars
- ADV 4399 - Advertising Campaigns

Creative Specialization Courses (12 Credit Hours)
- ADV 2322 - Concepting
- ADV 3322 - Portfolio
- ADV 3323 - Introduction to Graphic Design
- ADV 4322 - Advanced Portfolio

Advertising Elective (3 Credit Hours)
- Any three additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended elective for the creative specialization includes ADV 4323 - Copywriting.)

Second Major or Minor Choice
Hours vary according to choice.

Total for the Major Only: 46 Credit Hours

Advertising, B.A. with a Specialization in Digital Media Strategy
Admission Requirements
For students wishing to pursue a B.A. in advertising at SMU, admission into the Temerlin Advertising Institute is a two-step process.

STEP ONE: Students must have completed or be enrolled in ADV 1300 and at least one introductory concentration course (ADV 1321, ADV 1331 or ADV 1341). For the best preparation for step two of the admission process, it is strongly recommended that students have completed or are enrolled in the introductory concentration course for the concentration for which they are applying. Students must also be in good academic standing with the University with a minimum cumulative GPA of 2.000. Students transferring from other universities must have completed equivalent courses before they can progress to step two.

STEP TWO: Advertising major candidates who have fulfilled or are fulfilling step one also must complete an application for the concentration area(s) in which they are interested. The application is offered during the spring term only. Students who are not admitted during an application process may reapply during the next application period. Dates, times and location are posted at www.smu.edu/temerlin.

The Temerlin Advertising Institute offers students pursuing a B.A. in advertising the opportunity to focus their studies in one of three areas: creative, digital media strategy or strategic brand management. Students must apply to both the major and a concentration concurrently. Students may apply to more than one area of concentration but will be admitted to only one. All SMU advertising students are required to take a core set of advertising courses that includes survey, society and ethics, consumer behavior, research, media, business communication, professional seminar, and campaigns. In addition, advertising majors must declare and complete a second major or a minor

outside of advertising. Because SMU is in the center of a dynamic U.S. advertising market, many students participate in internships for course credit.

The digital media strategy specialization prepares students to enter the world of advertising and marketing as digital producers, digital strategists, content managers and media specialists. Marketing in the digital age means understanding when and where to communicate to consumers when they are most receptive to receiving and sharing messages. Students admitted to the specialization will learn to maximize consumers' engagement with marketing messages using paid, owned and earned media to achieve this goal. The digital media strategy specialization courses must be taken in sequence.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Digital Media Strategy

Prerequisite Course (3 Credit Hours)

- ADV 1300 - Survey of Advertising

Required Advertising Courses (31 Credit Hours)

- ADV 1321 - Introduction to Creativity
- ADV 1331 - Digital Media Landscapes

- ADV 1341 - Marketing Principles of Advertising
  or
- MKTG 3340 - Fundamentals of Marketing

- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior
  or
- MKTG 3343 - Consumer Behavior

- ADV 2302 - Advertising, Society, and Ethics
- ADV 3303 - Advertising Media
- ADV 3304 - Advertising Research
- ADV 3305 - Business Communication
  or
- BLI 3302 - Business Communications and Leader Development (for double majors in advertising and marketing/business)

- ADV 4106 - Professional Seminars
- ADV 4399 - Advertising Campaigns

Digital Media Strategy Specialization Courses (12 Credit Hours)

- ADV 2332 - Digital Media Strategy 1
- ADV 2333 - Internet and Mobile Advertising
- ADV 3332 - Digital Media Strategy 2
- ADV 3333 - Media Measurement and Metrics

Advertising Elective (3 Credit Hours)

- Any three additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended elective for the digital media strategy concentration includes ADV 4333 - Topics in Digital Media Marketing.)

Second Major or Minor Choice
Hours vary according to choice.

Total for the Major Only: 46 Credit Hours

Advertising, B.A. with a Specialization in Strategic Brand Management

Admission Requirements
For students wishing to pursue a B.A. in advertising at SMU, admission into the Temerlin Advertising Institute is a two-step process.

STEP ONE: Students must complete ADV 1300 and at least one introductory concentration course (ADV 1321, ADV 1331 or ADV 1341). For the best preparation for step two of the admission process, it is strongly recommended that students have completed or are enrolled in the introductory concentration course for the concentration for which they are applying. Students must also be in good academic standing with the University with a minimum cumulative GPA of 2.000. Students transferring from other universities must have completed equivalent courses before they can progress to step two.

STEP TWO: Advertising major candidates who have fulfilled or are fulfilling step one also must complete an application for the concentration area(s) in which they are interested. The application is offered during the spring term only. Students who are not admitted during an application process may reapply during the next application period. Dates, times and location are posted at www.smu.edu/temerlin.

The Temerlin Advertising Institute offers students pursuing a B.A. in advertising the opportunity to focus their studies in one of three areas: creative, digital media strategy or strategic brand management. Students must apply to both the major and a concentration concurrently. Students may apply to more than one area of concentration as long as they have taken the required introductory concentration course, but will be admitted to only one. All SMU advertising students are required to take a core set of advertising courses that includes survey, society and ethics, consumer behavior, research, media, business communication, professional seminar, and campaigns. In addition, advertising majors must declare and complete a second major or a minor outside of advertising. Because SMU is in the center of a dynamic U.S. advertising market, many students participate in internships for course credit.

The strategic brand management specialization prepares students to enter the world of advertising and marketing as account or brand managers, project managers, planners/strategists, consumer insight experts, event and promotion specialists, and new business developers. This specialization examines the approaches to management in advertising agencies and on the client side. Topics include strategies for the identification of marketing-related problems and the processes needed to find solutions through messaging, promotions and other forms of consumer engagement to build brand equity and market share. Students learn how to think critically, work collaboratively in an interdisciplinary environment, develop strategy, hone their communication skills, assess the metrics of their work and present concepts in an engaging way. The strategic brand management specialization courses must be taken in sequence.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Specialization in Strategic Brand Management

Prerequisite Course (3 Credit Hours)

- ADV 1300 - Survey of Advertising

Required Advertising Courses (31 Credit Hours)

- ADV 1321 - Introduction to Creativity
- ADV 1331 - Digital Media Landscapes

- ADV 1341 - Marketing Principles of Advertising
  or
- MKTG 3340 - Fundamentals of Marketing

- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior
  or
- MKTG 3343 - Consumer Behavior

- ADV 2302 - Advertising, Society, and Ethics
- ADV 3303 - Advertising Media
- ADV 3304 - Advertising Research

- ADV 3305 - Business Communication
  or
- BLI 3302 - Business Communications and Leader Development (for double majors in advertising and marketing/business)

- ADV 4106 - Professional Seminars
- ADV 4399 - Advertising Campaigns

Strategic Brand Management Specialization Courses (12 Credit Hours)

- ADV 2342 - Strategic Brand Management 1
- ADV 3342 - Strategic Brand Management 2
- ADV 3343 - Advertising Account Planning
- ADV 4343 - Strategic Promotion Management

Advertising Elective (3 Credit Hours)

- Any three additional credit hours of advertising electives (excluding ADV 1300, ADV 2323, ADV 2363, ADV 3323, ADV 3361, ADV 4363, ADV 4364, ADV 4366, ADV 4367, ADV 4368, and ADV 5303) (Recommended elective for the strategic brand management concentration includes ADV 2343 - International Advertising.)

Second Major or Minor Choice

Hours vary according to choice.

Total for the Major Only: 46 Credit Hours

Advertising Minor

The minor in advertising offers an overview of the social, economic, legal and marketing environments in which advertising functions. Students wishing to pursue a minor in advertising must first complete ADV 1300 with a grade of *B* or higher. Students must be in good academic standing with the university and have a declared major before

they can declare a minor in advertising. Students that have met these requirements should contact the Temerlin Advertising Institute.

Requirements for the Minor

Required Advertising Courses (18 Credit Hours)

- ADV 1300 - Survey of Advertising

Four Courses from the Following (12 Credit Hours):

- ADV 1321 - Introduction to Creativity
- ADV 1331 - Digital Media Landscapes

- ADV 1341 - Marketing Principles of Advertising
  or
- MKTG 3340 - Fundamentals of Marketing

- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior
  or
- MKTG 3343 - Consumer Behavior

- ADV 2302 - Advertising, Society, and Ethics
- ADV 2323 - Word and Image, Art and Design: 1900-Present
- ADV 3350 - Internship
- ADV 5301 - Topics in Advertising
- ADV 5302 - Topics in Advertising *(may only take ADV 5302 for minor credit one time)*

One Course Outside of Advertising or an Additional Course from Above (3 Credit Hours)

- AMAE 3322 - Marketing the Arts
- ANTH 2301 - Introductory Cultural Anthropology
- APSM 3372 - Advanced Public Relations in Sport *(prerequisite: APSM 2310)*
- APSM 4345 - Sports Marketing *(prerequisite: APSM 2310)*
- CCPA 3310 - Crisis Management
- CCPA 3321 - Communication in Global Context
- CCPA 3335 - Principles of Digital Communication and Social Media
- CCPA 3345 - Persuasion Theory and Practice
- CCPA 3347 - Principles of Political Communication
- CCPA 3350 - Integrated Marketing Communication
- ECO 1311 - Principles of Microeconomics: Consumers, Firms, and Markets
- MSA 2305 - Building Digital Audiences
- PSYC 1300 - Introduction to Psychology
- SOCI 1300 - Introduction to Sociology
- SOCI 2377 - Introduction to Markets and Culture
- SOCI 3330 - Social Construction of Identities
- SOCI 3345 - Construction of Social Identities in the Media
- SOCI 4340 - Sociology of Culture

Total: 18 Credit Hours

Advertising Courses

ADV 1300 - Survey of Advertising
Credits: 3
Introductory course for majors and nonmajors that surveys the field of advertising and explores how it fits into society. Topics include history, law, ethics, social dynamics, economic implications, and the advertising campaign planning process. Examines the process of advertising from the perspectives of art, business, and science. Required for all majors and minors.

ADV 1321 - Introduction to Creativity
Credits: 3
A survey of the theoretical, practical, and ethical issues associated with creative thinking. Examines individual and organizational strategies for promoting creativity and the creative thinker's role in shaping the culture. Also, highlights the intellectual connections between the scholarship in creativity and advertising industry practice. Students who complete this course may apply for admission to the Temerlin Advertising Institute's creative program. Students must earn a B or better in ADV 1321 to be eligible for admission to the creative program. Prerequisite or corequisite: ADV 1300.

ADV 1331 - Digital Media Landscapes
Credits: 3
Introduces the technologies and processes associated with mobile, Web, and other interactive experiences. Topics include how the Internet works, interaction design, information architecture, visual design, and the development process. Students must earn a B or better in ADV 1331 to be eligible for admission to the interactive media strategy program. Prerequisite or corequisite: ADV 1300.

ADV 1341 - Marketing Principles of Advertising
Credits: 3
Students learn the basic principles of consumer marketing and the role of advertising in the marketing mix. Emphasizes marketing and advertising strategy and planning processes through case studies in which students develop advertising answers to marketing problems and opportunities. Students must earn a B or better in ADV 1341 to be eligible for admission to the strategic brand management program. Prerequisite or corequisite: ADV 1300. Students may not receive credit for both ADV 1341 and MKTG 3340.

ADV 1360 - Creative Production
Credits: 3
Students learn the basic principles of advertising design and production in tandem with the use of industry-standard hardware and software programs, including the Adobe Creative Suite.

ADV 2301 - Consumer Behavior
Credits: 3
Covers theories from psychology, social psychology, sociology, anthropology, economics, marketing, and communications to explore the consumer decision-making process. Includes theories of motivation, attitudes, beliefs, and learning, with a direct application to advertising. Restricted to advertising majors and minors. Students may not receive credit for this course and MKTG 3343 unless the ADV credit predates enrollment in MKTG 3343. Advertising majors and minors who are business double majors may use MKTG 3343 credit toward their major/minor requirements.

ADV 2302 - Advertising, Society, and Ethics
Credits: 3
Broad overview of the interaction of advertising with society. Examines economic, social, and ethical issues as well as legal and regulatory constraints. Prerequisites: ADV 1300 and ADV 1321, ADV 1331, or ADV 1341. Restricted to advertising majors and minors.

ADV 2322 - Concepting
Credits: 3
A workshop for developing ideation skills and helping students self-identify as art directors or writers. Students acquire techniques and develop personal discipline inherent to the generation of novel, sophisticated creative work based on a solid concept: the distinctive, guiding idea that drives campaign messages. Assignments are evaluated in group critiques, and each student completes a final portfolio by term's end. Prerequisites: ADV 1300, ADV 1321. Restricted to advertising majors.

ADV 2323 - Word and Image, Art and Design: 1900-Present
Credits: 3
Contemporary designers and artists create meaningful, persuasive, and expressive works through a combination of images and text. These works of graphic design and art shape the visual culture of every aspect of life, from the look of media and information networks to people's experience of the cities in which they live. This course surveys the modern and contemporary history of works of art and design that demand to be read as much as seen, from the industrial age to the knowledge economy.

ADV 2332 - Digital Media Strategy 1
Credits: 3
Focuses on strategies used by marketers and advertisers to engage fragmented audiences using paid media (television, radio, print, online display, mobile, or paid search), owned media (websites, Facebook pages, retail environments, and special events), and earned media (word-of-mouth and social media channels). Covers strategies for engagement (i.e., fostering direct relationships with prospects and customers through dialogue). Prerequisites: ADV 1300, ADV 1331. Restricted to advertising majors.

ADV 2333 - Internet and Mobile Advertising
Credits: 3
Focuses on the tactical side of purchasing, placing, and improving interactive media marketing. Topics include paid search, paid social media placement, and display advertising. Explores the burgeoning world of mobile advertising, location-based advertising, and second-screen interaction. Restricted to advertising majors.

ADV 2342 - Strategic Brand Management 1
Credits: 3
Provides the basic concepts, duties, skills, problem-solving techniques, and processes of an account brand manager. Covers industry trends, agency structure, and the tools to be a leader in advertising who uplifts brands, engages consumers, and moves market share. Prerequisites: ADV 1300, ADV 1341. Restricted to advertising majors.

ADV 2343 - International Advertising
Credits: 3
Explores the rapidly changing global environment that influences marketing and advertising, including research, management, strategy, media, and execution. Students learn to recognize similarities and differences between countries and consumers based on tangible cultural indicators, and they develop the necessary leadership and problem-solving tools to effectively communicate and advertise products in a global marketplace. Restricted to advertising majors.

ADV 2363 - Special Topics in Graphic Design
Credits: 3
Focuses on special topics in graphic design with topic(s) defined for introductory examination.

ADV 3050 - Internship
Credits: 0
Off-campus opportunity in a professional setting where students apply principles learned in various advertising courses. Students may be placed for the fall, spring, or summer terms. Departmental consent required.

ADV 3150 - Internship
Credits: 1
Off-campus opportunity in a professional setting where students apply principles learned in various advertising courses. Students may be placed for the fall, spring, or summer terms. Through weekly, midterm, and final reports; the completion of an essay; and the satisfactory accomplishment of 50, 100, or 150 hours of work, a student may earn one, two, or three academic credit hours respectively. Only three total credit hours may be earned through internships. Departmental consent required.

ADV 3250 - Internship
Credits: 2
Off-campus opportunity in a professional setting where students apply principles learned in various advertising courses. Students may be placed for the fall, spring, or summer terms. Through weekly, midterm, and final reports; the completion of an essay; and the satisfactory accomplishment of 50, 100, or 150 hours of work, a student may earn one, two, or three academic credit hours respectively. Only three total credit hours may be earned through internships. Departmental consent required.

ADV 3303 - Advertising Media
Credits: 3
Covers principles essential to media planners, buyers, and sellers. Includes media audience analysis, media vehicle comparisons, and budgeting. Students master the elements of media plans used in major advertising agencies. Restricted to advertising majors.

ADV 3304 - Advertising Research
Credits: 3
Explores a variety of research methods, sources, and issues, with a focus on the proper role of research in advertising planning. Students design, execute, analyze, and present primary and secondary research projects. Restricted to advertising majors.

ADV 3305 - Business Communication
Credits: 3
Provides the framework and tools for successful communication in business environments. Focuses on the written, oral, and interpersonal communication skills that are needed in planned and impromptu situations to effectively and efficiently convey information and deliver messages that meet professional standards. Restricted to advertising majors.

ADV 3322 - Portfolio
Credits: 3
A workshop course devoted to the continued development and professional-level execution of an advertising portfolio reflecting mastery of strategic and conceptual thinking. Work is prepared and evaluated to satisfy highest industry standards for placement. A jury of creative professionals reviews portfolios at an end-of-term critique. Prerequisite: ADV 2322.

ADV 3323 - Introduction to Graphic Design
Credits: 3
An introduction to graphic design as a form of visual communication through the use of type, image, form, and color. Projects explore principles of perception, visual identity and communication, thematic structure and hierarchy, creative problem-solving, and basic design practices of critique and discussion. Prerequisite: ADV 1360 or ADV 2322.

ADV 3332 - Digital Media Strategy 2
Credits: 3
Utilizes a series of marketing and advertising cases to explore the successes and failures of companies applying the principles learned in ADV 2332. Socratic in nature, with little lecture; instead, students are expected to participate in class discussions and presentations. Prerequisites: ADV 2332.

ADV 3333 - Media Measurement and Metrics
Credits: 3
Focuses on the tools, methods, and new metrics advertisers use to glean deeper consumer insights and more accurately measure the relative success of marketing campaigns. Topics include media segmentation, assessing audience exposure, ROI, Web analytics, big data, and quantitative and qualitative research methodologies. Restricted to advertising majors only.

ADV 3342 - Strategic Brand Management 2
Credits: 3
Provides the basic concepts, duties, skills, problem-solving techniques, and processes of an account brand manager. Covers industry trends, agency structure, and the tools to be a leader in advertising who uplifts brands, engages consumers, and moves market share. Prerequisite: ADV 2342.

ADV 3343 - Advertising Account Planning
Credits: 3
Focuses on account planning, which is a research-based and consumer-centered approach to the strategic development of advertising. Students review qualitative and quantitative research practices used in advertising as well as the planning techniques used by account planners. Includes the creation of strategic briefs, primary research among consumers, and reports that contribute to the creative and media elements of an advertising campaign. Restricted to advertising majors only.

ADV 3350 - Internship
Credits: 3
Off-campus opportunity in a professional setting where students apply principles learned in various advertising courses. Students may be placed for the fall, spring, or summer terms. Through weekly, midterm, and final reports; the completion of an essay; and the satisfactory accomplishment of 50, 100, or 150 hours of work, a student may earn one, two, or three academic credit hours respectively. Only three total credit hours may be earned through internships. Departmental consent required.

ADV 3361 - Typography
Credits: 3
Introduces the fundamentals of typography. Explores the history of typographic forms, typographic anatomy, vocabulary, principles of composition, the expressive potential of type, the intricacies of spacing between individual letterforms and lines of type, and legibility across a variety of media and across varying distances and speeds of delivery. Prerequisites: ADV 1360, ADV 3323, and ASAG 1310 or ADV 2323.

ADV 4106 - Professional Seminars
Credits: 1
Short courses that allow students to explore aspects of the field of advertising not covered by formal classes. Restricted to advertising majors.

ADV 4322 - Advanced Portfolio
Credits: 3
A workshop course devoted to the continued development and professional-level execution of an advertising portfolio reflecting mastery of strategic and conceptual thinking. Work is prepared and evaluated to satisfy highest industry standards for placement. A jury of creative professionals reviews portfolios at an end-of-term critique. Prerequisite: ADV 3322.

ADV 4323 - Copywriting
Credits: 3
This workshop covers how to write for radio, television, cable/satellite, and Web-based advertising. Correct grammar, structure, and style are important factors in student success. Explores the blending of visual and verbal elements in the writing of television and radio advertising and promotional material. Restricted to advertising majors only.

ADV 4332 - Digital Media Strategy 3: Digital Media Practicum
Credits: 3
Students solve real-world digital media problems using lessons and tools learned in previous courses. Problems may come from clients and/or the instructor. Restricted to advertising majors only.

ADV 4333 - Topics in Digital Media Marketing
Credits: 3
Covers the process of concepting, designing, and building interactive experiences that engage customers but do not feel like ads. Restricted to advertising majors only.

ADV 4342 - Strategic Brand Management 3
Credits: 3
Students apply management concepts, theories, and processes studied and practiced in prior courses to provide strategic and business solutions appropriate for advertising problems. Problems may come from clients and/or the instructor. Restricted to advertising majors only.

ADV 4343 - Strategic Promotion Management
Credits: 3
Focuses on the selection and management of specialized forms of promotion, including in-store marketing, price promotion, direct marketing, event sponsorship, product placement, branded entertainment, public relations, viral marketing, and other tools available to the marketing communications practitioner. Restricted to advertising majors only.

ADV 4363 - Logo and Trademark Design
Credits: 3
Explores the theory and practice of personal and corporate identity systems, including symbol and logotype design and their application to various media such as stationery systems, signage, websites, displays, and packaging. Also, issues of legibility, cross-cultural understanding, and the integrity of representation across a variety of media. Prerequisites: ADV 1360, ADV 2322 or ADV 3323, and ASAG 1310 or ADV 2323.

ADV 4364 - Publication Design
Credits: 3
Examines the graphic designer's role in the layout and design of publications. Lectures and studio work cover historical and current practices and technologies used to produce multipage publications. Also, issues of legibility and enhanced storytelling. Students produce visualizations for several publications using the elements of layout with typography and art. Prerequisites: ADV 1360, ADV 3323, ADV 3361 and ADV 2323 or ASAG 1310.

ADV 4366 - Infographics
Credits: 3
Addresses why infographics are effective and what makes them successful. Students learn how to plan and design an infographic, how to explore various approaches to data visualization, and how to create visualizations like maps, charts, flow charts, and simple drawings. Prerequisites: ADV 1360, ADV 3323, and ADV 2323 or ASAG 1310.

ADV 4367 - Image-Making
Credits: 3
An exploration of various styles and techniques for producing conceptually-based imagery. Students develop skills using both analog and digital illustration methods. Prerequisites: ADV 1360 and ADV 3323.

ADV 4368 - Graphic Design for Digital Media
Credits: 3
Examines specific design challenges posed by various digital media and platforms: issues of scale, color, and typography, as well as resolution, file sizes, and color modes. Overview of layout and navigation considerations for websites, apps, and social media. Prerequisites: ADV 1360, ADV 3323, and ADV 2323 or ASAG 1310.

ADV 4399 - Advertising Campaigns
Credits: 3
Integrating the major advertising principles, students develop and present an advertising campaign. Includes research, creative strategy, media plan, and presentation of the campaign to a client. Prerequisites: ADV 3303, ADV 3304. Restricted to advertising majors.

ADV 5110 - Directed Study
Credits: 1
Independent study under the direction and supervision of a full-time faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed Directed Studies Approval Form to the Temerlin Advertising Institute before the start of the term. Instructor and departmental consent required. Prerequisite: Junior standing. Restricted to advertising majors.

ADV 5210 - Directed Study
Credits: 2
Independent study under the direction and supervision of a full-time faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed Directed Studies Approval Form to the Temerlin Advertising Institute before the start of the term. Instructor and departmental consent required. Prerequisite: Junior standing. Restricted to advertising majors.

ADV 5301 - Topics in Advertising
Credits: 3
Focuses on special topics in advertising such as timely, evolving, ethical, and/or international issues immediately relevant to the advertising industry. Prerequisite: ADV 1300. Restricted to advertising majors.

ADV 5302 - Topics in Advertising
Credits: 3
Focuses on special topics in advertising such as timely, evolving, ethical, and/or international issues immediately relevant to the advertising industry. Restricted to advertising majors and minors.

ADV 5303 - Special Topics in Graphic Design
Credits: 3
Focuses on specialized topics in graphic design with topic(s) defined for intensive examination.

ADV 5310 - Directed Study
Credits: 3
Independent study under the direction and supervision of a full-time faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed Directed Studies Approval Form to the Temerlin Advertising Institute before the start of the term. Instructor and departmental consent required. Prerequisite: Junior standing. Restricted to advertising majors.

Art

Associate Professor Ira Greenberg**, Division Chair**

Professors: Barnaby Fitzgerald, Ira Greenberg, Philip Van Keuren
Associate Professor: Brian Molanphy
Assistant Professors: Courtney Brown, Melanie Clemmons, Lisa McCarty, Sarah Nance, Nishiki Sugawara-Beda
Lecturer: Ariel C. Wilson
Visiting Lecturer: Jer'lisa Devezin
Adjunct Lecturer: Tabatha Trolli

General Information

The study and practice of art offers a unique experience for the exercise of imaginative freedom, the opportunity for the independent organization of work, and the promise of self-knowledge and personal satisfaction. Art is also a source of knowledge about the world and, for many, an active agent in the transformation of social life. The Division of Art embraces these values in its art courses leading to the B.A., B.F.A. and M.F.A. degrees.

At the heart of the student's experience is the acquisition of skills, concepts and strategies relevant to an expanded notion of studio culture in contemporary art. Students are encouraged to explore and develop art in a challenging environment that rewards experimentation and risk-taking. The Division of Art offers a program of study that prepares students for the successful continuation of professional practice as an artist, the pursuit of graduate study in art or the application of visual art to other fields of study.

The program is marked by its wide range of supporting resources: studio courses that offer grounding in techniques and concepts; courses in the critical and historical study of art; well-equipped workshops, galleries and exhibition areas that provide ample opportunities for the public presentation of student work; field trips to public and private collections of art and to artists' studios; and a lively series of lectures and seminars by distinguished contemporary practitioners, critics and curators. Small class size coupled with an approach that takes full advantage of the division's setting within a distinguished school of the arts of a major university offers a transdisciplinary educational experience that few, if any, specialist colleges of art can match. More information is available at www.meadows.smu.edu/art.

Instructional Facilities

Facilities for the study of art include well-lighted studios, individual work spaces and excellent equipment to support all media taught, as well as individual experimentation. Facilities span both new and traditional approaches to studio art, including digitally based studios for photography, video, computer-generated imaging, 3-D imaging and rapid prototyping (3-D printing), and physical computing (microcontrollers/Arduino boards and sensors). Art students work as broadly and as experimentally as they wish within an environment of open artistic exchange, surrounded by artists in dance, music, theatre, film and communications. Additional facilities comprise a variety of spaces for the installation of artwork, including the Pollock Gallery – the art exhibition space of the Division of Art located in Expressway Tower. The Pollock Gallery provides students, faculty, staff and the surrounding community with opportunities to experience a wide and thought-provoking array of exhibitions representing diverse artists, time periods and cultures, as well as the B.F.A. and M.F.A. qualifying exhibitions. The Meadows School and SMU offer excellent library and technological resources, including the Hamon Arts Library (incorporating the Meadows computer center), the Center of Creative Computation (an interdisciplinary research center open to all Meadows' undergraduate and graduate students), as well as specific facilities within the Division of Art.

The division runs an extensive visiting artist program, ranging from visiting artist lectures and workshops to the Meadows distinguished visiting professor. Through these programs, artists, critics and curators of note are brought to campus to teach, lecture and conduct upper-level undergraduate and graduate critiques.

The division also offers a special program of importance to graduate and undergraduate students, the New York Colloquium (a winter interterm program in New York). During the New York Colloquium, students visit a range of museums, galleries, artists' studios and other venues appropriate to the development of their critical and professional studies in art.

The Dallas/Fort Worth area has a large artistic community with rich and varied resources. These include many internationally and nationally significant museums and contemporary exhibition spaces: the Dallas Museum of Art, SMU's Meadows Museum, the Nasher Sculpture Center, the Dallas Contemporary, the Crow Collection of Asian Art, the Latino Cultural Center of Dallas, the Kimbell Museum, the Fort Worth Museum of Modern Art and the Amon Carter Museum. There are also vibrant, artist-run alternative and cooperative galleries, and a growing commercial gallery system.

Admission and Financial Aid

In addition to meeting University admission criteria, students wishing to pursue the B.A. in art or B.F.A. in art degrees must submit a portfolio for admission to the degree program.

All students admitted to the University and to the B.A. in art or B.F.A. degree program are considered for artistic scholarships based on artistic merit as they enter the University. The deadline for incoming portfolios to be reviewed for artistic scholarships is February 1 of every year for scholarships beginning in the fall term, and November 15 for early admission/early action candidates. Portfolios must be submitted through Slate, the online digital portfolio system, for full consideration. A guide to aid the student in the preparation of the portfolio of images is available through the Division of Art and on the division website. In addition, the Division of Art hosts regularly scheduled portfolio review days for prospective students where faculty critique and discuss student work in an open review. More information is available at www.meadows.smu.edu/art.

In addition to meeting University transfer admission criteria, students wishing to transfer to the B.A. or B.F.A. degree program from another university must be accepted by portfolio review prior to admission to study. For more information, students should contact the Division of Art.

Art students who were not dually admitted prior to matriculation must take three 1300-level courses and then meet with their pre-major advisor in order to declare the B.A. in art. Art students who were not dually admitted prior to matriculation must take four 1300-level courses and then meet with their pre-major advisor in order to declare their B.F.A. in Art.

Financial aid from the Division of Art for entering and continuing students is based upon artistic accomplishment. Continuing scholarships are reviewed each year based on satisfactory progress toward the degree. To receive an award for artistic merit, students must submit either a Free Application for Federal Student Aid (www.fafsa.ed.gov) or a waiver, and a CSS/Profile (www.collegeboard.com).

Programs of Study

The Division of Art offers two undergraduate degrees – the B.F.A. in art and the B.A. in art – and minors in art and photography. In addition, the Division of Art contributes to the continuous development and delivery of interdisciplinary courses throughout the Meadows School of the Arts.

Art, B.A.

The B.A. in art is designed to offer students a degree in art that allows time for significant study in another discipline as well. This makes room for double majors and extensive study in the humanities, sciences or other degree programs. The B.A. degree gives students with varied interests in university study a sound footing in the visual, tactile and conceptual capabilities, as well as historical and cultural knowledge and a range of theoretical and analytical bases, for making art. To earn a B.A., the student is required to take a minimum of 39 hours in the Division of Art and 9 hours in the Department of Art History.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundations (9 Credit Hours)

- ASAG 1300 - Observation
- ASAG 1304 - Spaces
  and
- ASAG 1308 - Narrative or ASAG 1312 - Systems

Required Art Courses (9 Credit Hours)

- ASAG 3310 - Art in the World
- ASAG 3380 - Critical Issues
- ASAG 5315 - Advanced Studio II

Advanced Art Studies (12 Credit Hours)

Division of Art courses at the 3000 level or higher

Additional Art Studies (9 Credit Hours)

Division of Art courses at any level

Art History (9 Credit Hours)

Art History courses at any level. Approved courses in visual culture studies from other divisions may substitute.

Total for the Major Only: 48 Credit Hours

Art, B.F.A.

The B.F.A. degree prepares students to become professional artists, engage in professions in the arts or continue studies at the graduate level. The division offers instruction in an integrated studio environment in the following media: ceramics, digital/hybrid media, drawing, painting, photography, printmaking and sculpture. There is also scope for the study of performance in art and for work in courses that focus on art and engagement with the city. Cross-disciplinary interaction is encouraged at every level. Students may declare the B.F.A. degree in art upon the completion of ASAG 1300, ASAG 1304 in fall and ASAG 1308, ASAG 1312 in spring.

To earn a B.F.A., the student is required to take a minimum of 66 hours in the Division of Art and nine to 12 hours in the Division of Art History.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundations (12 Credit Hours)

- ASAG 1300 - Observation
- ASAG 1304 - Spaces
- ASAG 1308 - Narrative
- ASAG 1312 - Systems

Required Art Courses (15 Credit Hours)

- ASAG 3310 - Art in the World
- ASAG 3380 - Critical Issues

- ASAG 3390 - Advanced Studio I
- ASAG 5310 - Professional Practice in Art
- ASAG 5315 - Advanced Studio II

Advanced Art Studies (24 Credit Hours)
Division of Art courses at the 3000 level or higher

Additional Art Studies (15 Credit Hours)
Division of Art courses at any level

Art History (12 Credit Hours)
At least 6 hours must be at the 2000 level or above. ASAG 3350 may substitute for one 3000-level ARHS course. Approved courses in visual culture studies from other divisions may substitute.

Community Experience (0-1 Credit Hours)
- MSA 1101 - FACE: First–Year Arts Community Experience
  or
- MSA 1001 - FACE: First–Year Arts Community Experience

Total for the Major Only: 78-79 Credit Hours

Art, B.F.A. - Digital Game Development M.I.T.
SMU Guildhall provides an in-depth master's degree and graduate certificate in digital game development tailored to students who wish to become actively involved in the game development industry as designers or artists.

In conjunction with the Guildhall, the Division of Art offers students pursuing a B.F.A. degree in art coordination with the art creation and design specializations in game development in the master's degree program at the Guildhall. This program provides the breadth and rigor of a B.F.A. degree which will develop skills supportive of the in-depth investigation of digital game development fundamentals through the curriculum of the Master of Interactive Technology.

The B.F.A./M.I.T. program is designed to furnish students with significant studio art training and a clear curriculum to prepare them for specialized graduate-level study of art creation, game creation and simulation at SMU Guildhall.

Students apply for admission to the Guildhall in the fall of the senior year. More information about the M.I.T. program is available online at www.smu.edu/guildhall.

Note: At the time of publication, this curriculum was under review. Please consult the Chair of the Division of Art, your undergraduate adviser and the catalog addendum for any updates.

Art Minor
The minor in art is designed to give a coherent structure to a brief but serious investigation of studio art. In this minor, students should grow to understand the formation of visual imagery and gain confidence in studio practice. The minor is designed for students who wish to incorporate more intensive visual studio training with studies in other areas, such as art history or advertising, or for those who want a basic studio curriculum.

Requirements for the Minor
- Any three courses at the 1300 level or above in ASAG, ASCE, ASDR, ASIM, ASPH, ASPR, ASPT, and ASSC
- Any three art courses at the 3000 level or higher (Note: Certain 3000-level courses will have 1000-level pre requisites.)

Total: 18 Credit Hours

Photography Minor

Students completing 18 hours in photographic study can expect to obtain a sophisticated understanding of the photographically derived image and the technical and creative skills necessary for its production. Classes in photography offered by the Division of Art integrate the technical aspects of the medium with the aesthetic concerns appropriate to art. Through the use of photography, students learn to think and express themselves visually. A minor in photography prepares one for further work in fine arts or commercial photography and other areas where knowledge of photography is helpful. Beyond vocational applications, a minor in photography creates a firm foundation for future creative development.

Requirements for the Minor

- ASPH 1300 - The Basics of Photography
- ASPH 3303 - Photography II
- any two additional ASPH courses at the 3000 level
- ASPH 5304 - Advanced Photography and Digital Media

- ARHS 3367 - History of Photography I: Origins-1940
  or
- ARHS 3380 - History of Photography II: 1940-Present
  or
- an approved substitution

Total: 18 Credit Hours

Art-General Courses

Studio courses generally require six hours per week of in-class work and critical discussion. Students should enroll with a firm commitment to regular attendance and should expect to spend an additional four to six hours per week, per class, to complete their coursework.

Prerequisites and Course Fees. In enrolling for courses in art, it is necessary that the course number be preceded by the appropriate subject code prefix for credit to be properly recorded. Many courses at the 3000 level and all courses at the 5000 level have prerequisite coursework required. All directed studies courses require instructor approval before enrollment. All courses in studio art, except lectures and seminars, have a laboratory fee of $30 per credit hour, which is added to the tuition and fees assigned at the time of enrollment. Certain courses in art require an additional material or tool expense in addition to fees.

Foundations and Art, General Studio

Foundations courses are ASAG 1300, ASAG 1304, ASAG 1308 and ASAG 1312. This sequence of courses is for art majors or any student who seeks an intensive study of the visual arts. The remaining ASAG courses are organized thematically to explore a range of assumptions and practices – from the historical to the contemporary – that inform the making and display of art; these general studio courses have been designed to provide students with intensive training in studio practice, exposure to a range of materials, processes and research methods, and an introduction to the theoretical issues that frame contemporary art.

ASAG 1300 - Observation

Credits: 3

Seeing is not as simple as it looks. What people see, how they see, and how and why they chose to represent their experience of the world in a particular form and through a particular medium are fundamental questions for the artist. Students experiment with various media while exploring the history, theory, and application of these resources of representation in visual art; they learn the differences among looking, scanning, and seeing; and they encounter a range of resources, from theories of perspective in drawing and painting through 3–D modeling and digital simulations of reality. Corequisite: ASAG 1304.

ASAG 1304 - Spaces
Credits: 3
The apprehension of space is tied to the fact that each person occupies space and invests various kinds of spaces with meaning. The expression of spaces through art may include a range of media and situations, from sculpted forms, constructions, architecture, and installations to two–dimensional renderings and virtual representations of space. Students explore this multivalent conception of space to understand how one's embodied conception of the world is made manifest through visual art. Corequisite: ASAG 1300.

ASAG 1308 - Narrative
Credits: 3
Narrative is the simple act of recounting a story. The ability to depict and connect events in an aesthetic and persuasive manner is at the heart of some of the most compelling visual art. Students explore a wide variety of media and issues that relate to art that includes the dimension of time, explicitly or implicitly, which can be the literal time of a moving image (film, video, animation), the duration of a performance, the time required for the reading of a text, the depiction of an event through a single image, or a sequence of still images as found in the illustrated novel or comic strip. Prerequisites: ASAG 1300, ASAG 1304.

ASAG 1310 - Word and Image, Art and Design: 1900-Present
Credits: 3
Contemporary designers and artists create meaningful, persuasive, and expressive works through a combination of images and text. These works of graphic design and art shape the visual culture of every aspect of life, from the look of media and information networks to people's experience of the cities in which they live. This course surveys the modern and contemporary history of works of art and design that demand to be read as much as seen, from the industrial age to the knowledge economy.

ASAG 1312 - Systems
Credits: 3
In the course of modern and contemporary art, many artists have chosen to take a systematic approach toward making their art. Systems in art are a set of rules or constraints that function as a machine for making art. Students encounter a wide range of systematic art practices, from the elegant serial works of impressionism to art that incorporates models taken from communication theory and linguistics. Explores the concept of systems in art drawn from the realm of social and political theory, where the artist's work may be done in collaboration with others in order to understand and possibly change social relations that characterize everyday life.

ASAG 1375 - Introduction to Social Practice
Credits: 3
Explores the relationship between cultural production and social change and traces both the institutionalization of socially engaged art in the form of "social practice" and movements in U.S. social history that fall outside the purview of formal "social practice." Students visit Dallas–based socially engaged projects, drawing upon these exchanges to develop socially engaged project proposals. Students from all levels and disciplines are welcome in this highly interdisciplinary class.

ASAG 3305 - Art, Word, and Image in Contemporary Art
Credits: 3
Contemporary artists create meaningful and expressive art through the combination of images and text: artwork that demands to be read as much as seen. Students learn about the recent history of language in art and create of works of art for a variety of sites of display — real and virtual — such as the gallery, social media, printed ephemera, the fabric of the campus, and the city at large. Prerequisite: One 1300-level studio art course.

ASAG 3310 - Art in the World
Credits: 3
Works are made in the world of art and in the world of history, not in the world of school. Students study the world of art by visiting museums, galleries, notable architecture, public lectures, installations, symposia, etc. All student work is written or made in relation to the experiences in these venues.

ASAG 3315 - Community Engaged Practice
Credits: 3
Explores how visual and performing arts play a vital role in community transformation and social change and identifies the skills that artists need in order to successfully enter, collaborate with, and exit a community. Combines theory, history, and fieldwork to develop cross–disciplinary skills for artists desiring to work in communities. In addition to classroom sessions, students conduct site visits and meet with artists and organizers that focus on socially engaged practices. Students initiate community–engaged projects and institutional collaborations while receiving feedback and mentorship. Students create their own timeline, deliverables, and accountability measures and complete written assignments and readings relevant to their project. Culminates in a public presentation of student projects. Prerequisite: ASAG 1375 or permission from instructor.

ASAG 3325 - Studio Workshop
Credits: 3
An intensive investigation in arts by students engaged in independent work, group collaboration, and analytical study. Prerequisite: 15 credit hours in art or permission of instructor.

ASAG 3350 - Art Colloquium: New York
Credits: 3
Involves intensive analysis, discussion, and writing concerning works of art in museum collections and exhibitions, and in alternative exhibition spaces. Students study the philosophical as well as the practical to define and understand the nature of the art society produces and values. The colloquium meets in New York City for 2 weeks in January.

ASAG 3360 - Color and the Visual Image
Credits: 3
Color systems of Munsell, Itten, Photoshop palettes, etc. are studied in the light of contemporary neurobiology and the capabilities of media. Klee, Albers, Matisse, and other masters of color focus the course on color modes. Prerequisite: 24 credit hours in art or permission of instructor.

ASAG 3370 - Special Topics in Studio Art
Credits: 3
To be announced by the Division of Art. Prerequisite: Permission of instructor.

ASAG 3380 - Critical Issues
Credits: 3
A seminar for art majors in their 3rd year of studies. This course investigates topics in current critical theory in the arts as well as the historical context of their development. Readings are taken from philosophy, literary criticism, art theory, and art criticism. Prerequisite: 24 credit hours in art.

ASAG 3390 - Advanced Studio I
Credits: 3
A forum for art majors in the third year of studies that facilitates the students' ability to articulate their work as artists and to defend and present it in a peer–group setting. Prerequisite: ASAG 3380.

ASAG 5001 - B.F.A. Qualifying Exhibition
Credits: 0
(for students who entered prior to fall 2010) Participation in the qualifying exhibition is required for all candidates for the degree of B.F.A. in art.

ASAG 5100 - Internship in Studio Art
Credits: 1
Students work in internship positions that relate to their individual studio studies, including internships in teaching, in galleries, as assistants to established artists, or with businesses in the arts. Students should sign up for 1, 2, or 3

credit hours for internships of 3, 6, or 10 hours per week. Internships are supervised and evaluated by a member of the Division of Art faculty. Prerequisite: Approval of departmental chair or adviser.

ASAG 5200 - Internship in Studio Art
Credits: 2
Students work in internship positions that relate to their individual studio studies, including internships in teaching, in galleries, as assistants to established artists, or with businesses in the arts. Students should sign up for 1, 2, or 3 credit hours for internships of 3, 6, or 10 hours per week. Internships are supervised and evaluated by a member of the Division of Art faculty. Prerequisite: Approval of departmental chair or adviser.

ASAG 5300 - Internship in Studio Art
Credits: 3
Students work in internship positions that relate to their individual studio studies, including internships in teaching, in galleries, as assistants to established artists, or with businesses in the arts. Students should sign up for 1, 2, or 3 credit hours for internships of 3, 6, or 10 hours per week. Internships are supervised and evaluated by a member of the Division of Art faculty. Prerequisite: Approval of departmental chair or adviser.

ASAG 5310 - Professional Practice in Art
Credits: 3
For art majors in their final year of studies. A practical and informed approach to understanding the competencies that are required to sustain practice as an artist beyond the undergraduate experience. Students learn how to negotiate the professional aspects of art and to identify and take advantage of a host of opportunities. Topics include establishing a studio; applying for residencies and grants; exhibiting work; intellectual property law; the contemporary art market; and alternative models of production, distribution, and exchange of art. Prerequisite: ASAG 3390.

ASAG 5315 - Advanced Studio II
Credits: 3
A forum for art majors in the fourth year of studies that facilitates the students' ability to articulate their work as artists and to defend and present it in a peer–group setting. Serves as a culmination of the study of art through the production of a body of work for exhibition. Required for the B.A. in art and the B.F.A. in art. Prerequisite: ASAG 3380.

ASAG 5325 - Studio Workshop
Credits: 3
An intensive investigation in arts by students engaged in independent work, group collaboration, and analytical study. Prerequisite: 15 credit hours in art or permission of instructor.

ASAG 5350 - Art Colloquium: New York
Credits: 3
Involves intensive analysis, discussion, and writing concerning works of art in museum collections and exhibitions, and in alternative exhibition spaces. Students study the philosophical as well as the practical to define and understand the nature of the art society produces and values. The colloquium meets in New York City for 2 weeks in January.

Ceramics Courses

ASCE 1300 - Introduction to Ceramics
Credits: 3
Introduces the discipline of ceramics through projects, readings, and field trips. The motto of the ceramics area is "panta rhei" (everything flows) because the deformation of matter and the flowing across disciplines determine what one makes in ceramics. Students engage the Dallas community by making pots for the annual Empty Bowls food bank benefit, and they learn to use ceramic materials to analyze the ceramics they produce and to judge them critically.

ASCE 1310 - Ceramic Technology
Credits: 3
Explores the principles of formation, transformation, and deformation regarding refractory, glass-former, and flux. From the sources of raw materials, to their mechanical behaviors, to multiple-fired products, students discover relationships between chemistry, structure, properties, and performance in the manufacture of artworks.

ASCE 3300 - Intermediate Ceramics
Credits: 3
Further engages the discipline of ceramics through projects, readings, and field trips. Students form independent projects in which they may pursue a particular interest of their own (e.g., to depict the human figure in ceramic, to copy in clay an object that exists in another material, to create a set of tableware in a particular style, to use ceramic as a complement to artwork being made concurrently in other disciplines such as painting, or to employ ceramics as a part of an installation). Prerequisite: ASCE 1300, ASCE 1310, ASCE 3320, or ASCE 3330, or permission of instructor.

ASCE 3310 - Special Topics in Ceramics
Credits: 3
To be announced by the Division of Art. Prerequisite: ASCE 1300, ASCE 1310, ASCE 3300, ASCE 3320, ASCE 3330 or permission of instructor.

ASCE 3320 - Sex, Drugs, and Rocks
Credits: 3
Beyond their more common uses, pots have traditionally been used ritually and socially in conjunction with powerful substances and forces, which are often depicted in a pot's form or surface decoration. Such practices continue today. Traditional and current uses of pots include Greek wares for gymnasia and bacchanalia, Chinese tea ware, Central American chocolate ware, North American dinnerware, and South African brewery ware, as well as pots that celebrate bodily functions such as giving birth and pots that depict parts of the body gendered, sexualized, or related to reproduction. After studying these pots and their contexts, the ceramics of living artists particularly concerned with topics such as sex and drugs, and texts about various pots and their contents, students make their own interpretations by undertaking the ceramic process as an artificial geological process.

ASCE 3330 - Death Pots
Credits: 3
A fundamental motive in ceramics is to preserve - though paradoxically, a pot's destruction may be inherent in its making. Some ceramics are made to navigate their bearers away from the world of the living, while others are deliberately destroyed in accordance with death rites, in anticipation of death, or as a replacement for death. Death pots may define relationships with otherworldly luminaries, serve as milestones for the event of death, or mark cyclical reunions with the dead. As well as examining these pots that bridge two worlds, students study the ceramics of memorialization, transformation, regeneration, decadence, violence, and obsolescence.

ASCE 5100 - Directed Studies in Ceramics
Credits: 1
Students may take one course per term only. Prerequisite: ASCE 3300.

ASCE 5200 - Directed Studies in Ceramics
Credits: 2
Students may take one course per term only. Prerequisite: ASCE 3300.

ASCE 5300 - Advanced Ceramics
Credits: 3
Students refine their understanding of the discipline of ceramics based on their grasp of techniques and principles from the first two courses. Employing the fluid nature of ceramics to flow across disciplines, students select a common ground (for example, architecture, food service, or the human figure) and identify specific techniques (for

example, printing, throwing, or painting) to accomplish primarily self-initiated projects of research and making. Prerequisite: ASCE 3300 or permission of instructor.

ASCE 5302 - Directed Studies in Ceramics
Credits: 3
Students may take one course per term only. Prerequisite: ASCE 3300.

ASCE 5310 - Special Topics in Ceramics
Credits: 3
To be announced by the Division of Art. Prerequisite: ASCE 1300, ASCE 1310, ASCE 3300, ASCE 3310, ASCE 3320, ASCE 3330 or permission of instructor.

Digital and Hybrid Media Courses

ASIM 1300 - Introduction to Digital/Hybrid Media
Credits: 3
Introduces computational media and digital processes as the basis of creative practice. Students gain proficiency in digital imaging, sound, and video using Adobe Creative Cloud and open-source software, in addition to exploring glitch and internet art. Includes an overview of the history of digital/hybrid media art from the mid-20th century onward.

ASIM 1310 - Creative Coding I
Credits: 3
Exploring computation as a powerful generative medium, students learn the fundamentals of coding and computational thinking, including an introduction to object-oriented programming. Hands-on topics may include algorithmic drawing, procedural imaging, 2-D and 3-D animation, visualization, interactivity, computational music, and gaming.

ASIM 1330 - Intermediate Digital/Hybrid Media
Credits: 3
Students use intermediate computational media and digital processes to experiment with and generate interactive pieces, internet art, 3D modeling and animation, digital fabrication, and virtual and augmented reality. For students interested in installation, sculpture, performance, interactivity, and electronics in art. Prerequisite: Meadows student or permission of instructor.

ASIM 1340 - Computational Sculpture
Credits: 3
An introduction to 3D modeling, with a focus on modeling, animation, and physical object output using 3D software and digital fabrication tools. Students develop a multidisciplinary skill set and learn to model objects and environments and to apply surface texturing, lighting, rapid prototyping, rigging, and rendering. Includes lectures, field trips, in-class studio time, and assignments. Prerequisite: Meadows student or permission of instructor.

ASIM 3305 - Creative Computing II
Credits: 3
Introduces advanced creative coding principles using the Java programming language. Students learn how to design software systems for real-time performance and interactive applications. Advanced objected-oriented principles and introductory data structures are introduced. Prerequisites: ASIM 1310, CRCP 1310, CS 1341, or permission of instructor.

ASIM 3310 - Digital/Hybrid Media Workshop
Credits: 3
An intensive study designed to further integrate computational media and digital processes into creative practice. The focus is on developing independent work, group collaboration, and analytical study. Depending on the topic and work completed, study may be applied to different media concentrations. Prerequisite: ASIM 1310, CS 1341, or CS 1342.

ASIM 3315 - Special Projects in Digital/Hybrid Media
Credits: 3
Intermediate to advanced research in a variety of areas that support digital and hybrid media practice and research. Uses focused research topics, studio projects, seminar discussions, and an introduction to various computational tools as vehicles for personal aesthetic expression. Prerequisites: ASIM 1310, ASIM 3320, or permission of instructor.

ASIM 3320 - Advanced Digital/Hybrid Media
Credits: 3
Students use advanced computational media and digital processes to continue to experiment with and generate interactive pieces, internet art, 3D modeling and animation, digital fabrication, and virtual and augmented reality. Over the course of the semester, students complete several projects to help establish their artistic practice. For students interested in new media art, installation, sculpture, performance, interactivity, and electronics in art. Prerequisite: ASIM 1330.

ASIM 3325 - Special Projects in Digital/Hybrid Media
Credits: 3
Intensive study of a particular subject or design project.

ASIM 3350 - Digitally Augmented Performance and Installation
Credits: 3
Introduces digitally augmented performance art and installation through survey lectures, video documentation, reading, technical instruction, and off-campus research trips. Students explore the intersection of material/immaterial, interactivity, technology, the body (human and nonhuman), and the conceptual potentials within the context of new media performance and installation. Students produce their work both individually and collaboratively, working up to one final completed piece. Prerequisite: ASIM 1330.

ASIM 5302 - Digital/Hybrid Media Directed Studies
Credits: 3
Students may take one course per term only. Prerequisite: Permission of instructor.

ASIM 5320 - Aesthetics and Computation
Credits: 3
In this studio based course students explore code and computation as primary generative media, developing original works of art, leading to the creation of an online portfolio. Screen based, printed, mobile, Web, physical, and performative applications may be explored. Prerequisite: ASIM 3305, CRCP 3305, or CS 1342.

ASIM 5325 - Special Projects in Digital/Hybrid Media
Credits: 3
Intensive study of a particular subject or design project.

ASIM 5326 - History and Theory of Creative Computation
Credits: 3
How have computers and information networks been used to create art? What ideas and practices have contributed to the development of creative computing? What does making art using code, algorithms, and the Internet say about the nature of art today? The identity of the artist? How do we assess the quality of the art produced by computers or responsive systems? Students explore the rich history and theory of creative computation, from the earliest experiments in machine art of the 20th century to the most advanced concepts of the present, from Artificial Intelligence to Virtual Reality. Prerequisites: A second-level coding course (CS 1342 or ASIM 3305 or CRCP 3305), or 9 credits in any 3000-level courses designated ARHS, ASAG, ASIM, CRCP, or CS.

Drawing Courses

ASDR 1300 - Introduction to Drawing
Credits: 3
Drawing from life objects and concepts. Work in class is supplemented by outside assignments and readings. Emphasis placed on space, materials, analysis of form, and critical judgment.

ASDR 1310 - Drawing in Italy
Credits: 3
This course introduces students to plein-air drawing of the ruins, monuments, and landscape of central Italy, with an emphasis on development of light, space, and compositional structure. Offered at SMU-in-Italy.

ASDR 3300 - Drawing: Intermediate Level
Credits: 3
Studio and outside work in drawing that further develops vision and individual approaches to drawing. Prerequisite: ASDR 1300.

ASDR 3305 - Drawing as Concept and Performance
Credits: 3
This course begins with the premise that the contemporary artist conceives of drawing as an expanded field of expressive and conceptual possibilities. Drawing understood as concept or performance is neither solely preparatory nor descriptive. Rather, drawing is constructed using a variety of means, including imaginative systems of notation, graphic conventions drawn from visual culture at large, and scripted physical actions. Prerequisite: ASAG 1300 or ASDR 1300.

ASDR 3320 - Material Studies: The Book Art
Credits: 3
An interdisciplinary course for creating artworks based on the form of the book. Considers the relationships among materiality, time, and an extended field of image making. Students are encouraged to utilize constructed and found materials in their exploration of concepts and processes central to contemporary book works, including sequence, repetition, and viewer participation; the embodiment of ideas through the book; book as tool and as art object; and the variety of formats clustered around the scroll and the codex. Prerequisite: ASAG 1300 or ASDR 1300.

ASDR 3330 - The Mirroring Line: Interdisciplinary Mark Making
Credits: 3
Interdisciplinary mark making (be it movement, sculpture, sound, drawing, or text) enables research on what might be termed the "mirroring line." By locating and engaging a series of borders (legal, social, physical, psychic, sonic, environmental, theoretical, and imaginary) that striate Dallas, its environs, and the multiple communities that intersect within the city, students expand the concepts of what it means to make a line (using graphite, blood, router, string, etc.) and of the kinds of substrate that take a line (be it paper, street, water, or human beings).

ASDR 5100 - Directed Studies in Drawing
Credits: 1
Students may take one course per term only. Prerequisite: ASDR 3300.

ASDR 5200 - Directed Studies in Drawing
Credits: 2
Students may take one course per term only. Prerequisite: ASDR 3300.

ASDR 5300 - Drawing Advanced
Credits: 3
Drawing at the senior level exemplifying independent development in drawing. Prerequisite: ASDR 3300 or permission of instructor.

ASDR 5302 - Directed Studies in Drawing
Credits: 3
Students may take one course per term only. Prerequisite: ASDR 3300.

ASDR 5303 - Directed Studies in Italy: Advanced Students
Credits: 3
Offers senior-level development in drawing and individual responses to the ruins, monuments, and landscape of Italy, which are themselves the subjects of many masterpieces encountered in churches, museums, and archaeological sites. Students are allowed the freedom to explore formal issues and expressive means in response to these subjects, producing a visual record of their perceptions and thoughts in representational, abstract, or conceptual modes. Critiques allow students to demonstrate skills in formal analysis and interpretation. Enrollment is limited. Prerequisite: ASDR 3300.

ASDR 5305 - Drawing as Concept and Performance
Credits: 3
This course begins with the premise that the contemporary artist conceives of drawing as an expanded field of expressive and conceptual possibilities. Drawing understood as concept or performance is neither solely preparatory nor descriptive. Rather, drawing is constructed using a variety of means, including imaginative systems of notation, graphic conventions drawn from visual culture at large, and scripted physical actions. Prerequisite: ASDR 3305.

Painting Courses

ASPT 1300 - Introduction to Painting
Credits: 3
A first course in painting from life, objects, and concepts. Emphasis is placed on space, materials, color, analysis of form, and critical judgment.

ASPT 3300 - Painting Intermediate
Credits: 3
Includes study of the materials, capabilities, processes, and essential meaning of painting, as well as the qualities of color, vision, and composition. Subjects are drawn from life, objects, and concepts. Extensive studio and outside work is required. Prerequisite: ASPT 1300 or permission of instructor.

ASPT 3305 - Studio Workshop: Color and Meaning
Credits: 3
A painting workshop in which theoretical works on color are discussed and employed, but the central concern remains the development of color relationships within each student's work. Extensive reading and written presentations are required. Prerequisite: ASPT 3300.

ASPT 3306 - Painting in Taos I
Credits: 3
An intermediate study of painting in the physical and cultural environment of the Fort Burgwin Research Center. Prerequisite: ASPT 1300 or permission of instructor.

ASPT 3309 - Painting in Rome
Credits: 3
A study of painting among the monuments and landscapes of central Italy. Prerequisite: ASPT 1300 or permission of instructor. (SMU-in-Italy)

ASPT 5100 - Directed Studies in Painting
Credits: 1
Students may take one course per term only. Prerequisite: ASPT 3300.

ASPT 5200 - Directed Studies in Painting
Credits: 2
Students may take one course per term only. Prerequisite: ASPT 3300.

ASPT 5300 - Advanced Painting
Credits: 3
An intensive studio experience for students who wish to develop a significant body of work in painting. Independent development is stressed alongside a program of readings and individual and group critiques. Prerequisite: 6 credit hours in painting at the 3000 level or permission of instructor.

ASPT 5302 - Directed Studies in Painting
Credits: 3
Students may take one course per term only. Prerequisite: ASPT 3300.

ASPT 5306 - Painting in Taos II
Credits: 3
An advanced study of painting in the physical and cultural environment of the Fort Burgwin Research Center. Prerequisite: ASPT 3300 or ASPT 3306, or permission of instructor.

Photography Courses

ASPH 1300 - The Basics of Photography
Credits: 3
An introduction to lens-based creative practice including technical and conceptual concerns specific to the medium. Working digitally, students gain proficiency in Adobe Lightroom, and experience outputting their work as archival inkjet prints. Includes an introduction to the history of photography and contemporary practice, and an exploration of individual photographers and artists. Students gain experience articulating verbal and written criticism of images through class critiques and a written examination. Students must supply their own digital single-lens reflex (DSLR) cameras, which allow for manual exposure.

ASPH 1310 - Introduction to Video
Credits: 3
Provides an opportunity to understand and master the craft of video production in the context of art. Using Final Cut Pro and higher-end cameras with full manual controls, students experiment with the many ways to generate moving images. Covers methods and concepts derived from film and video: point of view, shot composition, spatial and time continuity, lighting, and superimposition. Encourages the comparison of narrative and non-narrative formal systems. Also, the most important practitioners of video as art and the intersection of video with film, theatre, installation art, and architecture.

ASPH 3300 - Darkroom Photography
Credits: 3
Exploration of the creative possibilities of silver-based photographic materials in the darkroom. Special attention is given to black-and-white film development, negative enlarging, and a variety of manipulative techniques. Students provide their own 35mm film camera. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3302 - Black-And-White Photography II
Credits: 3
Continuation of ASPH 3300, with emphasis on the zone system, film manipulation, chemical printing, and matting techniques. Includes the possibility of working in medium-to-large film formats, zone system, and bifilter printing. Prerequisite: ASPH 3300 or permission of instructor.

ASPH 3303 - Photography II
Credits: 3
A continuing study of lens-based creative practice which concentrates on students' development of an independent body of work. Working digitally, this course advances students' conceptual knowledge of the medium, while

expanding upon their experience and confidence working with tools such as Adobe Creative Suite, scanners, and large-format printers. Special areas of focus, tools, and technique may be offered by the professor. Students must supply their own digital single-lens reflex (DSLR) cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3304 - Digital Tools
Credits: 3
Exploration of the experimental use of image-capture devices, software manipulation, output material, and presentation. Topics can include flatbed scanners, large-format inkjet printing, and text and collage techniques. Students provide their own single-lens reflex digital cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3306 - Photography in Taos
Credits: 3
Intermediate and advanced study of photography in the physical and cultural environment of the Fort Burgwin Research Center. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3310 - Large-Format Photography
Credits: 3
Explores the mechanics, creative possibilities, and aesthetics of silver-based photographs made with the 4x5 view camera. Fully examines adjustments unique to the view camera allowing for maximum image control. Topics include still life, landscape, portraiture, and architecture. View cameras are available for student use. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3315 - Video Art
Credits: 3
This studio course introduces video, sound, and time-based media in the context of the visual arts. Learning the fundamentals of shooting moving images with the camera, capturing sound, and editing in the Adobe Suite, students generate independent projects that work across sequence, montage, formal experiments, and narratives. Students take advantage of hi-tech and low-tech, the anachronistic and the new. Examines artists and media makers at the intersection of visual art, film, installation, architecture, and networked media. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3320 - The Documentary Impulse
Credits: 3
Exploration of traditional and contemporary approaches to documentary photography through shooting assignments, lectures, and readings. Utilizing print-on-demand technology, each student produces a book of images and text on a self-defined project. Students work with digital cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3325 - The Photographic Portrait
Credits: 3
Explores traditional and contemporary approaches to the photographic portrait through shooting assignments, lectures, and readings. Students work in available light on location and with SMU's electronic strobe equipment in the studio. Includes work with digital cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3330 - Fashion Photography
Credits: 3
Students photograph on location and in the studio. Includes on- and off-camera lighting techniques, concept development, art direction, work with talent, shot styling, fees, publication rights, model releases, editing, portfolio presentation, and the history of fashion photography. Students work with digital cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3340 - Altered and Alternative Photographic Images
Credits: 3
Exploration of the specialized chemical techniques that alter the gelatin silver print, including line drop, Sabattier effect, and hand coloring. Also, alternative nonsilver-based printmaking methods, including cyanotype, Van Dyke

brown, gum bichromate, and platinum and palladium. Prerequisite: Any studio art 1000-level course or instructor consent.

ASPH 3345 - Cameraless Photography and Contemporary Practice
Credits: 3
This experimental course asks students what it might mean to make a photograph by exploring the most basic materials of digital and analog photography: light, chemicals, pixels, code, film, paper, and ink. Students are introduced to various cameraless processes including the making of photograms, cyanotypes, and lumen prints, and also investigate digital inkjet printing as a creative practice. Students are encouraged to experiment liberally with the materials of their choosing. The course introduces historical and contemporary examples of cameraless photography and discusses the role of abstraction within these processes. Class content is largely dedicated to studio time to complete photographic projects in addition to reading, discussion, technical demonstrations, and in-class exercises. Prerequisite: ASPH 1300.

ASPH 3350 - The Photographic Book
Credits: 3
Exploration of the creative presentation of photographs in traditional and contemporary book form using conventional and alternative bookbinding techniques. Field trips to local rare book collections supplement the students' understanding of the nature of the photographic book. Students may work with film and/or digital cameras. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3355 - Eco-Photography
Credits: 3
Explores the role of photography in appreciating, preserving, and altering nature. Students gain experience conducting photographic fieldwork through class trips to local gardens and trails. Alongside these site-based experiences, students are introduced to environmentally conscious plant-based photo processes in the studio. Works by historic and contemporary landscape and botanical photographers are explored, along with examples of non-fiction nature writing. Overall, the course emphasizes the production of creative works, technical demonstrations, critical group discussion, and the development of ethical, waste-reducing approaches to photography. Prerequisite: ASPH 1300 or permission of instructor.

ASPH 3360 - Special Topics in Photography
Credits: 3
Topics to be announced by the Division of Art. Prerequisite: Permission of instructor.

ASPH 3370 - Nonfiction Production
Credits: 3
Combines the history and practice of nonfiction field production. Hands-on demonstrations, screenings, readings, lectures, and discussions prepare students to produce and create a short documentary piece. Focuses on research, preplanning, and writing skills as integral components of video production. Students create a documentary project 5–10 minutes in length on a topic of their choice. Prerequisite: FILM 1304 or ASPH 1300.

ASPH 3390 - Experimental Camera
Credits: 3
Introduces students to non-traditional approaches to lens-based art practice. From historical optical devices like the camera obscura, to alternative ways of creating imagery using traditional capture devices (both still and/or moving), students explore the possibilities and limitations of creating artwork with a camera. The majority of this studio class is dedicated to the processes of making artwork. Students are also introduced to historical and contemporary experimental approaches to image-making and read and discuss art theory when relevant. The specific processes and concepts introduced are determined by the instructor and may vary semester to semester. Materials required for the semester vary but may include: DSLR Camera, film camera, and/or other historical film and contemporary digital image-capture devices. Prerequisite: ASPH 1300 or instructor permission.

ASPH 5100 - Directed Studies in Photography
Credits: 1
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5101 - Directed Studies in Video
Credits: 1
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5200 - Directed Studies in Photography
Credits: 2
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5201 - Directed Studies in Video
Credits: 2
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5302 - Directed Studies in Photography
Credits: 3
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5303 - Directed Studies in Video
Credits: 3
Students may take one course per term only. Prerequisite: Permission of instructor.

ASPH 5304 - Advanced Photography and Digital Media
Credits: 3
An advanced investigation of lens-based creative practice, which culminates in a self-directed body of work. Execution and exploration of students' work is open to digital, analog, video, and hybrid processes. Prerequisite: ASPH 3303 or permission of instructor.

Printmaking Courses

ASPR 1300 - Introduction to Printmaking
Credits: 3
Introduction to historical and contemporary printmaking in a wide variety of media, including intaglio printing, etching, engraving, drypoint, aquatint, monotype, silkscreen, woodcut, and numerous digital possibilities presented by the medium.

ASPR 1321 - Printmaking: Woodcut
Credits: 3
Introduces the process of relief printing.

ASPR 3300 - Printmaking Workshop
Credits: 3
Intermediate- and advanced-level exploration of the printing medium as an expressive tool. The ambience of the workshop, with no fixed structure, offers freedom to experiment in all directions (emotionally, intellectually, and technically) and to seek inspiration from any source. Students gain the self-discipline necessary for coherent results and mastery of the craft of printing. Prerequisite: ASPR 1300 or instructor consent.

ASPR 5100 - Directed Studies in Printmaking
Credits: 1
Prerequisite: Permission of instructor.

ASPR 5200 - Directed Studies in Printmaking
Credits: 2
Prerequisite: Permission of instructor.

ASPR 5300 - Printmaking Workshop
Credits: 3
Further intermediate- and advanced-level exploration of the possibilities of the printing medium as an expressive tool. The ambience of the workshop, with no fixed structure, offers freedom to experiment in all directions (emotionally, intellectually, and technically) and to seek inspiration from any source. Students gain the self-discipline necessary for coherent results and mastery of the craft of printing. Prerequisite: ASPR 3300 or permission of instructor.

ASPR 5302 - Directed Studies in Printmaking
Credits: 3
Prerequisite: Permission of instructor.

Sculpture Courses

ASSC 1300 - Introduction to Sculpture
Credits: 3
An introduction to working in three dimensions from a variety of approaches, investigating sculpture's purposes, materiality, and spatial nature. Students examine historical and contemporary approaches to sculpture to understand how to manipulate form, space, and expressive content in three dimensions.

ASSC 1320 - Materials and Processes
Credits: 3
An introductory survey of the manipulation of a variety of media (clay, plaster, wood, metal, etc.) and the contemporary and historical approaches to the use of these materials in art. Emphasis on expressive potential and studio safety.

ASSC 3300 - Intermediate Sculpture
Credits: 3
A continuation of study of problems in sculpture, including analysis of form, theory, and technical processes. Emphasis on sustained investigation using a number of perspectives, critical discussion, analysis of contemporary and historical work, and concentrated studio practice. Students gain confidence with and understanding of the tools, materials, and concepts of sculpture. Prerequisites: ASSC 1300, ASSC 1320 or permission of instructor.

ASSC 3310 - Material and Form
Credits: 3
Intensive investigation of physically-based (construction, metal casting, and subtractive techniques) and digitally-based (3-D printing, computer-controlled output) material processes. Examines the ramifications of material choice and method in the formal and stylistic development of sculptural work. Explores the traditional development and contemporary practice of sculptural production, with a focus on developing a personal sculptural vocabulary. Requires 6 hours of studio work outside of scheduled meeting times. Prerequisites: 3 credit hours in ASSC courses or 6 credit hours in ASAG courses, or permission of instructor.

ASSC 3320 - Body and Object
Credits: 3
An intensive sculptural study of the body and figure that addresses the body through its objective structure and its social and psychological meanings and explores how these can be conveyed in contemporary practice. In class, students focus on the observation and direct study of the figure and its tactile translation into material. Out of class, students focus on independent projects to consider the question of the body as a metaphoric and performative subject, to explore the body's material and immaterial nature, and to create work about the figure without literal reference to it. Requires 6 hours of studio work outside of scheduled meeting times. Prerequisites: 6 credit hours in ASSC courses and 12 credit hours in ASAG courses, or permission of instructor.

ASSC 3330 - Time and Material
Credits: 3
An interdisciplinary course that considers the relationships among materiality, time, and drawing, using both constructed and found materials. Investigates time, movement, and repetitive action; work that documents the process of making; the relationship between digital and material form; and the formats of installation and documentation. Prerequisites: 6 credit hours in ASSC courses and 12 credit hours in ASAG courses, or permission of instructor.

ASSC 3340 - Shelter and Place
Credits: 3
An intensive interdisciplinary investigation into social forms and environments, both constructed and natural, in order to question what it is to dwell, how a sense of place is described and enacted, and how forms and events can influence and be influenced by structures. Work is based upon the identification of and location within a specific urban or natural landscape site. Includes collaborative work, drawing, analytical study of sites and environments, and construction. Draws paradigm examples from installation, architectural, and sculptural practice. Requires 6 hours of studio work outside of scheduled meeting times. Prerequisites: 6 credit hours in ASSC courses and 12 credit hours in ASAG courses, or permission of instructor.

ASSC 3350 - X–Sculpture
Credits: 3
Investigates the creation of 3–D forms and environments using experimental methods such as digital modeling, processing, video, sound and computer–based manufacture or output and performance. Students to interact with different knowledge bases and purposes in an investigation of the problem of how to image spatial and material experience in contemporary practice. Prerequisites: ASSC 1300 or ASAG 1300 and ASAG 1304, plus 3 hours in any ASIM course.

ASSC 5100 - Directed Studies in Sculpture
Credits: 1
Students may take one course per term only. Prerequisite: Permission of instructor.

ASSC 5200 - Directed Studies in Sculpture
Credits: 2
Students may take one course per term only. Prerequisite: Permission of instructor.

ASSC 5300 - Advanced Seminar in Sculpture
Credits: 3
Advanced investigation of contemporary practice in sculpture, including methods of research, means of production, and the critical and theoretical contexts of contemporary sculpture. Prerequisite: 9 credit hours in art courses at the 3000 level or permission of instructor.

ASSC 5302 - Directed Studies in Sculpture
Credits: 3
Students may take one course per term only. Prerequisite: Permission of instructor.

Art History

Professor Adam Herring**, Department Chair**

Professors: Roberto Conduru, Randall C. Griffin, Adam Herring
Associate Professor: Amy Freund, Stephanie Langin-Hooper, Anna Lovatt
Assistant Professors: Elizabeth Eager, Elyan Hill, Adam Jasienski, Abbey Stockstill

The study of art history trains students to negotiate a world saturated with images. It challenges students to confront critically the issues posed by the visual culture that mediates their understanding of the past, present and future. Built on the fertile exchange between the arts and the humanities, art history at SMU subscribes to an interdisciplinary and intercultural approach to learning. Students are taught to think across current categories and boundaries and practice a socially responsible art history.

In addition to developing acute visual sensibilities, students acquire the ability to evaluate and organize information, conduct scholarly research and articulate their ideas in both written and spoken language. Students completing this course of study are prepared for advanced training in the field of art history; museum and gallery professions; or work in a broad range of other fields, including publishing, arts administration, teaching and public policy.

Art History, B.A.

Foundation Courses. Foundations courses include the three-part introductory survey sequence (ARHS 1300, ARHS 1301, and ARHS 1302), which provide an overview of major art historical developments from prehistory to the present. Students are required to take one of the survey courses (ARHS 1300, ARHS 1301, or ARHS 1302) to fulfill 3 credit hours of the Foundations requirement. This requirement can also be fulfilled with ARHS 1303 or ARHS 1304 (which are used for AP or transfer credit).

In addition to 3 credit hours of Foundations fulfilled by the survey, any 1000 level ARHS course (including, but not limited to, the other two parts of the survey sequence) can be used to fulfill the other 3 credit hours of Foundations.

Temporalities/Challenging the Canon Courses. Temporalities courses are upper-level (3000, 4000, or 5000 level) art history courses that offer frameworks for a broad understanding of temporal dimensions: a duration of time, the power of some areas over others, the telescoping of past into present and vice versa, or questions of recurrence across time. The objects and narratives that constitute the history of art are in constant flux. Historically, our discipline has focused on artworks, artists, and ways of seeing that emerged from the European tradition and has privileged the viewpoints of individuals who were (among other things) white, male, heterosexual, and wealthy. Courses with the Challenging the Canon designation explore artistic objects and traditions that challenge the validity of such an exclusionary canon and narrow perspective.

Research and Methods. All Art History majors are required to take ARHS 4399 - Research and Methods in Art History. Students are encouraged to take this course before enrolling in another advanced (4000 or 5000 level) Art History course.

Required Seminar. These small, advanced (4000 or 5000 level) art history classes are reading and writing intensive and offer the occasion to think critically and carefully about the dynamics of historical change and to engage with issues and debates in art history.

Minimum required grade: Only courses passed with a grade of *C*- or better will count toward the major in art history. Courses passed with a grade below *C*- may count toward other, elective requirements in a student's degree plan.

Many art history majors use free elective hours to complete minors or second majors in fields such as anthropology, chemistry (for conservation), English, history, international business, international studies, languages and psychology.

Honors Program

The Art History Honors Program is available to majors with exceptional academic records who seek a greater intellectual challenge. It is conducted as a two-term sequence (fall: ARHS 4391 and spring: ARHS 4392) during senior year, culminating with a 30-page thesis and faculty review. Students should contact the art history undergraduate adviser for more information.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Foundations (6 Credit Hours)

One course from the following survey courses:

- ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
  or
- ARHS 1301 - Catacombs, Cathedrals, and Flying Machines: Art and People of the Medieval and Early Modern Worlds
  or
- ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
  or
- ARHS 1303 - Introduction to Western Art I (AP or transfer credit)
  or
- ARHS 1304 - Introduction to Western Art II (AP or transfer credit)
  and
- One additional course at the 1000 level, chosen from any of the ARHS 1000-level courses (including, but not limited to, ARHS 1300, ARHS 1301, ARHS 1302, ARHS 1303, or ARHS 1304)

Temporalities Pre-1700 (6 Credit Hours)

Six credit hours at the 3000 level or above covering the period pre-1700 C.E.:

- ARHS 3301 - Art and Experience in Inka Peru
- ARHS 3302 - The Ancient Maya: Art and History
- ARHS 3304 - Aztecs of Mexico: Art and History
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
- ARHS 3315 - Classical Sculpture
- ARHS 3316 - Art in Rome
- ARHS 3317 - Land Between Two Rivers: Art of Ancient Iraq and Its Neighbors
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3320 - Medieval Art and Architecture
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3329 - Paris Art and Architecture I
- ARHS 3330 - Renaissance and Baroque Architecture
- ARHS 3331 - Art and Culture of the Italian Renaissance
- ARHS 3332 - 16th-Century Italian Art
- ARHS 3333 - Special Topics in Italian Art and Architecture
- ARHS 3335 - Meadows Museum Spotlight: Art History One Object at a Time
- ARHS 3336 - Power and Spectacle: The Arts of the Early Modern Hispanic World
- ARHS 3337 - The Baroque From a Northern Perspective
- ARHS 3338 - Sacred and Profane: Spanish Art and Architecture
- ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
- ARHS 3340 - Visual Culture in Colonial Mexico

- ARHS 3393 - Culture of Oaxaca: A Sense of Place
- ARHS 3394 - Art and Architecture of Japan
- ARHS 4304 - The City as Place
- ARHS 4310 - Seminar on Ancient Art
- ARHS 4320 - Seminar on Medieval Art
- ARHS 4330 - Seminar on Early Modern Art

Temporalities Post-1700 (6 Credit Hours)

6 credit hours at the 3000 level or above covering the period post-1700 C.E.:

- ARHS 3307 - Photography in Taos; Photographic Art, Photographic History
- ARHS 3341 - Portraiture and Selfhood
- ARHS 3342 - The Art Market: Making, Selling, and Displaying Art in Early Modern and Modern Europe
- ARHS 3343 - The Decorative Arts and the History of Dress in 18th-Century Europe
- ARHS 3344 - Paintings at the Prado
- ARHS 3345 - Animals in Art
- ARHS 3346 - Paris Art and Architecture II
- ARHS 3347 - Longhouse to Land Art: A History of the American Built Environment
- ARHS 3348 - 18th-Century Art
- ARHS 3349 - Hieroglyphs to Hypertext: The Art and History of the Book
- ARHS 3350 - The Making of Modern Life: Art and Design in the 19th Century
- ARHS 3351 - British Art and Architecture: The Making of Modern Britain
- ARHS 3353 - American Art and Architecture to 1865
- ARHS 3354 - History and Theory of Prints
- ARHS 3356 - Modern Architecture
- ARHS 3360 - Modern Painters in Spain
- ARHS 3363 - Topics in Brazilian Art and Architecture
- ARHS 3365 - Race and Gender in Visual Culture
- ARHS 3366 - Picasso, O'Keeffe, and Dali: The Rise of Modern Art
- ARHS 3367 - History of Photography I: Origins-1940
- ARHS 3368 - Art and Context: 1940-1970
- ARHS 3369 - Contemporary Art: 1965-Present
- ARHS 3372 - African Art
- ARHS 3374 - American Art and Architecture, 1865-1940
- ARHS 3375 - Art in the Fight for Freedom: Afro-Latin American Art
- ARHS 3376 - Latin American Art
- ARHS 3377 - Art and Architecture of Hispanic New Mexico
- ARHS 3380 - History of Photography II: 1940-Present
- ARHS 3381 - Gender and Sexuality in the Visual Arts
- ARHS 3387 - Picturing Children and the Family in Art: 1850 to the Present
- ARHS 3389 - Art of the Moving Image
- ARHS 4312 - Special Topics on 18th-Century Art and/or Architecture
- ARHS 4349 - Seminar on Contemporary Art
- ARHS 4350 - Seminar on Modern Art
- ARHS 4362 - The City of New York

Research and Methods (3 Credit Hours)

- ARHS 4399 - Research and Methods in Art History

Seminar (3 Credit Hours)

- One seminar course at the 4000 or 5000 level

Advanced Art History Electives (3 Credit Hours)

- Three additional credit hours in Art History at the 3000 level or above

Additional Art History Electives (6 Credit Hours)

- At least six additional credit hours in Art History at any level

  Note: At least six credit hours of Art History at the 3000 level or above must meet the Challenging the Canon co-requirement.*

*Challenging the Canon Courses

- ARHS 3301 - Art and Experience in Inka Peru
- ARHS 3302 - The Ancient Maya: Art and History
- ARHS 3304 - Aztecs of Mexico: Art and History
- ARHS 3307 - Photography in Taos; Photographic Art, Photographic History
- ARHS 3310 - War, Looting, and Collecting of Ancient Art
- ARHS 3317 - Land Between Two Rivers: Art of Ancient Iraq and Its Neighbors
- ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
- ARHS 3324 - Art and Cultures of Medieval Spain
- ARHS 3336 - Power and Spectacle: The Arts of the Early Modern Hispanic World
- ARHS 3340 - Visual Culture in Colonial Mexico
- ARHS 3345 - Animals in Art
- ARHS 3363 - Topics in Brazilian Art and Architecture
- ARHS 3365 - Race and Gender in Visual Culture
- ARHS 3372 - African Art
- ARHS 3375 - Art in the Fight for Freedom: Afro-Latin American Art
- ARHS 3376 - Latin American Art
- ARHS 3377 - Art and Architecture of Hispanic New Mexico

Studio Art (3 Credit Hours)

Second Language (12 Credit Hours)

Students must complete the intermediate level in a single second language.

Total for the Major Only: 48 Credit Hours

Art History Minor

The minor in art history enables all students in the University to extend their study into the realm of the visual arts. As a discipline dedicated to the examination of art in context, art history is a natural complement to a major in anthropology, history, languages, music, philosophy, political science, psychology, religion, sociology, or any of the humanities.

Requirements for the Minor

- Eighteen credit hours in art history, with a maximum of nine credit hours at the 1000 level.

Note: Only classes passed with a grade of C- or better will count for credit toward the minor.

Art History Courses

ARHS 1300 - From Mummies to Gladiators: Art and People of the Ancient World
Credits: 3
Introduces the arts and societies of the major ancient world cultures (Egypt, Mesopotamia, Bronze Age Aegean, Greece, Etruscan, and Roman), primarily c. 4,000 B.C.-350 A.D., and the pyramids of the pharaohs to the official

Roman adoption of Christianity. Focuses on art and architecture as a part of human life, from everyday activities to fabulous spectacles and the afterlife.

ARHS 1301 - Catacombs, Cathedrals, and Flying Machines: Art and People of the Medieval and Early Modern Worlds
Credits: 3
Explores the arts and cultures of the Middle Ages and Early Modern Era, and considers the objects and buildings produced between 350 and 1700, from soaring cathedrals and gem-encrusted crowns to beguiling portraits and Baroque fantasies, both as extraordinary aesthetic achievements and as participants in global artistic and political networks.

ARHS 1302 - From the Baroque to the Digital Age: Art and People of the Modern World
Credits: 3
Offers an engaging introduction to arts and societies around the world from 1700 to the present. Situates a diverse and intriguing range of images, objects, and spaces in relation to dynamic global currents of trade, exploitation, revolution, and communication that have shaped today's world. Students consider instances of cultural difference and transcultural exchange, while tracing the continuities and ruptures that have characterized the emergence of multiple modernities.

ARHS 1303 - Introduction to Western Art I
Credits: 3
Prehistoric through medieval. An introduction in lecture form to the fundamentals of art history. Includes observations of historical styles, techniques, and media of cultures.

ARHS 1304 - Introduction to Western Art II
Credits: 3
Renaissance through modern. A continuation of ARHS 1303. Can be taken separately or as part of a two-term survey of the history of Western art.

ARHS 1306 - Introduction to Architecture
Credits: 3
A contextual history of European and North American architecture from classical antiquity to the present century, with particular emphasis on 1400 to the present. Students will be introduced to basic principles and terminology, but the course will focus on the social and cultural meanings of the built environment in its urban context.

ARHS 1307 - Introduction to Art History
Credits: 3
A one-term introduction to the history of art and architecture, emphasizing the challenges inherent in the evaluation of archaeological, material, and documentary evidence; the identification and analysis of canonical monuments; and the construction of historical narrative. Fulfills the introductory course requirement for the art history major and serves as a prerequisite for ARHS 4399.

ARHS 1308 - Epic of Latin America
Credits: 3
Examines art, society, and culture in Latin America, 1450-1950. Presents art as a broad and multifaceted cultural problematic, and considers the enduring legacies and the dynamic processes of change that have shaped the region and its art. Topics include pre-Columbian empires; royal Spanish cities and revolution, reform, and modernism; Umbanda, Santeria, and Vodou; and Native American and gendered identities. An introductory survey course intended for undergraduate students of all academic and professional interests; no previous art history courses or experience with Latin America necessary. Includes slide lectures, classroom discussions, and visits to SMU and Dallas museums.

ARHS 1313 - Pharaohs, Pyramids, and Other Wonders of the Nile: Introduction to the Art of Ancient Egypt
Credits: 3
Explores the art of ancient Egypt, the Land of the Pharaohs, from the first pyramids (ca. 3500 BCE) through the death of Cleopatra and the Roman conquest (30 BCE). Focuses on major royal monuments, temples, funerary art

and mummies, statuary, and luxury arts. Emphasizes an understanding of Egyptian art within its cultural context, in order to better understand both the ancient civilization and the modern fascination with Egypt.

ARHS 1318 - Monsters, Mayhem, and Miracles: Art and Life in the Medieval World
Credits: 3
Explores the medieval world - ranging from the miraculous to the preposterous - through art, architecture, music, and literature. Sorcerers and werewolves, crusaders and inquisitors, soaring cathedrals, priceless books, and miracle-making saints are all creations of the Middle Ages and part of a vibrant legacy that is still alive today.

ARHS 1319 - Architecture of the Islamic World
Credits: 3
An introduction to the rich and varied architecture found across the Islamic world, from medieval Spain to contemporary Dubai, from the domes of Istanbul to the gardens of Isfahan. From its beginnings in seventh-century Arabia, Islam expanded rapidly across much of the Mediterranean and central Asia, incorporating new languages, cultures, and artistic traditions. Rather than conforming to a specific type, Islamic architecture proved to be highly adaptable, encouraging visual experimentation with new motifs and techniques as well as localized styles. Along with the historical development and aesthetic philosophies of Islamic architecture, students learn how these manifold traditions have shaped current dialogues about the Islamic world today.

ARHS 1325 - The Global Baroque
Credits: 3
Examines the interconnected world of the 16th and 17th centuries, through the lens of the artworks that moved throughout it. Considers the ways in which these active objects reshaped how people thought about themselves and the ever-expanding world and the role they played in making today's globalized society.

ARHS 1330 - The Visual Arts in France, 1500-1914
Credits: 3
Traces the history of the visual arts in France from the splendor of Renaissance court culture to the artistic revolutions of Impressionism and Cubism. Themes include the political uses of art, the invention of the artist as genius-provocateur, the visual articulation of gender, and the definition of France and French art in the ages of global trade and colonial conquest.

ARHS 1351 - Visual Cultures: Topics in Art History
Credits: 3
A fresh, thought-provoking introduction to art, culture, and history. Designed to educate and inspire the nonmajor, the subject matter of this course changes every semester.

ARHS 1359 - Impressionism
Credits: 3
No art movement is more famous or beloved than Impressionism. But when it first emerged in Paris in the late 1860s, critics condemned it as bizarre, radical, and dangerous. This class explores what made Impressionism possible as well as the way it reshaped modern art with intense colors, loose brushwork, and wide-ranging scenes of contemporary life.

ARHS 1360 - Picturing the American West
Credits: 3
Examines the different ways the American West has been depicted over time in photography, painting, film, and fiction, from Lewis and Clark to Clint Eastwood.

ARHS 3301 - Art and Experience in Inka Peru
Credits: 3
Machu Picchu, Cuzco, and the Inca are set within the deep artistic tradition of the Andean region. Several trips to view objects in DFW museum collections.

ARHS 3302 - The Ancient Maya: Art and History
Credits: 3
Introduces the art and history of the Maya of Central America. Also, addresses the principal sites and monuments of

the ancient Maya civilization, imparts a working understanding of the Maya hieroglyphic writing system, and surveys the political history of the fractious ancient Maya cities.

ARHS 3304 - Aztecs of Mexico: Art and History
Credits: 3
Examines the art and cultural history of Mexico in the centuries immediately before and after the Spanish arrival in Mesoamerica. Topics include the art and ceremony of the imperial Aztec state; the nature of the conflict between 1519 and 1521 that ended in the fall of the Aztec capital to the Spanish; and the monuments of Spanish conquerors, missionaries, and the native elite in Mexico's early colonial period.

ARHS 3305 - Arts of the American Southwest: Crossroads of Cultures
Credits: 3
Examines ancient Native American, Hispanic, Latino, and Anglo arts and cultures of the American Southwest. Considers the effects of ethnicity, gender, and community identity on regional art traditions and places artworks within their material, religious, political, and economic contexts.

ARHS 3307 - Photography in Taos; Photographic Art, Photographic History
Credits: 3
Students learn photography in Taos through the study of historical photographs made in the American West and by creating their own photographic response to the land and culture of Northern New Mexico. Students conduct scholarly research utilizing primary source photographs from SMU's DeGoyler Collection and local museums. Mindful of this rich history, students learn basic digital camera operation and design principles. Field trips to cultural landmarks, museums and galleries. No prerequisite.

ARHS 3310 - War, Looting, and Collecting of Ancient Art
Credits: 3
Examines the effects of war, looting, and collecting practices on the visual culture of the ancient world. Looks at the ways ancient wars and looting caused art objects to be destroyed or relocated, but also inspired the creative repurposed, collecting, and even creation of other arts. Investigates the devastating effects of modern wars and looting on archaeological sites, and analyzes how contemporary collecting practices both contribute to and raise awareness against cultural heritage destruction.

ARHS 3311 - Mortals, Myths, and Monuments of Ancient Greece
Credits: 3
A visual analysis of the rich tapestry of ancient Greek culture, fountainhead of Western civilization, with emphasis on mythological, archaeological, and historical settings in which the art and architecture occur. Touches on various aspects of ancient Greek life such as religious practices, Olympic contests, theatrical performances, and artistic perfection. (Temporalities pre-1500)

ARHS 3315 - Classical Sculpture
Credits: 3
A study of the styles, subjects, and techniques of the sculptor's art during the ancient Greek, Hellenistic, and Roman eras. Focuses on the functions of sculpture in the round and in relief, free-standing, and in architectural settings, with particular attention to historical background. (Temporalities pre-1500)

ARHS 3316 - Art in Rome
Credits: 3
A broad survey of the wide range of ancient, medieval, Renaissance, and Baroque artworks in Rome. Stresses art historical methodologies in looking at painting, sculpture, and architecture. Includes on-site lectures. (Temporalities pre-1500) (SMU-in-Italy)

ARHS 3317 - Land Between Two Rivers: Art of Ancient Iraq and Its Neighbors
Credits: 3
From the Tower of Babel and the Hanging Gardens to the Code of Hammurabi, the art of Mesopotamia holds a mythical aura. This lecture course investigates and demystifies the arts of ancient Iraq and its neighbors (Iran, Israel, Anatolia, and the eastern Mediterranean) from the invention of cities (c. 4000 B.C.E.) to the beginning of Islam (c.

600 C.E.). Also, examines temple and palace architecture, monumental sculpture, glyptic, terracotta, and small-scale luxury arts to appreciate some of the oldest civilizations in the world.

ARHS 3319 - Christian, Jewish, and Muslim Dialogue between Art and Text
Credits: 3
Examines the mutual perceptions, conflicts, and commonalities among medieval Jews, Christians, and Muslims as reflected in works of visual art and in philosophical, theological, legal, and literary texts.

ARHS 3320 - Medieval Art and Architecture
Credits: 3
A survey of medieval art and architecture, from the fall of the Roman Empire through the thirteenth century, in both the Christian West and East. Explores, both thematically and chronologically, a wide range of visual culture, from cathedrals and illuminated manuscripts to sacred works in glass, metal, ivory, and wood. Examines how the rich cross-cultural exchanges between Christians, Jews, and Muslims during this period helped forge an extraordinarily rich array of art and architecture.

ARHS 3324 - Art and Cultures of Medieval Spain
Credits: 3
Introduces the visual traditions of the diverse medieval cultures that coexisted from the fall of Roman Hispania to the cultural and political consolidations of Ferdinand and Isabella. Emphasizes instances of cultural coexistence and rivalry ("convivencia") among Spain's medieval Islamic, Christian, and Jewish cultures. Also, the interplay of foreign and indigenous traditions, the expression of religious and ethnic identity, and the reuse and reconception of artistic forms and objects. Direct study of medieval Spanish painting, sculpture, and manuscripts in the Meadows Museum and Bridwell Library supplement classroom lectures, discussion, and research projects. (Temporalities pre–1500; global perspectives)

ARHS 3329 - Paris Art and Architecture I
Credits: 3
Interweaves an investigation of the development of Paris from Roman times to the Renaissance with a history of French architecture during this period, revealing the major trends of both and their reciprocal relationship. Includes visits to important monuments, buildings, and features of urban design. (SMU-in-Paris)

ARHS 3330 - Renaissance and Baroque Architecture
Credits: 3
An introduction to Renaissance and Baroque architecture through a focus on the fashioning of religious spaces in Italy from the 15th to 17th centuries. Considers the work of artists and architects such as Bramante, Sangallo, Raphael, Michelangelo, Vasari, Bernini, Borromini, Tintoretto, Caravaggio, and Guarini. (Temporalities pre- or post-1500)

ARHS 3331 - Art and Culture of the Italian Renaissance
Credits: 3
Surveys major artistic developments of the Renaissance (1300-1600), with special attention to the work of Giotto, Donatello, Leonardo, Raphael, Titian, and Michelangelo. Includes study of the customs, literature, and philosophy of the period through selected readings of primary sources. (Temporalities pre-1500)

ARHS 3332 - 16th-Century Italian Art
Credits: 3
Topics include the dominance of Leonardo, Michelangelo, Raphael, and Titian in the 16th century; the High Renaissance in Florence and Rome and its aftermath; Mannerism in Catholic courts across Europe; the development of art history as a discipline in conjunction with the rise of academics, art collecting, and the search for elevated status; and the challenge of women artists such as Sofonisba Anguissola to prevailing notions of creativity. (Temporalities pre- and post-1500)

ARHS 3333 - Special Topics in Italian Art and Architecture
Credits: 3
Surveys major monuments of Italian painting, sculpture, and architecture, with a focus specified by the instructor. The SMU-in-Italy summer course includes visits to actual sites. (Temporalities pre-1500)

ARHS 3335 - Meadows Museum Spotlight: Art History One Object at a Time
Credits: 3
Explores the Meadows Museum's extraordinary collection of Spanish artworks. Each lecture focuses on a single object from the museum's collection, from severe portraits, through lofty religious paintings and startling sculptures, to luxurious pieces of shiny silverwork. Putting a magnifying glass up to these artworks illuminates their broader social, artistic, and historical contexts: in short, the stories they can tell.

ARHS 3336 - Power and Spectacle: The Arts of the Early Modern Hispanic World
Credits: 3
Examines the visual arts of the early modern Hispanic world (Spain, the Caribbean, colonial Mexico and South America, southern Italy, the Philippines, and the Spanish Netherlands). Emphasis on the interplay and creative synthesis of distinct visual cultures within the colonial sphere.

ARHS 3337 - The Baroque From a Northern Perspective
Credits: 3
Explores the world of Rembrandt, Rubens, Leyster, Vermeer, Van Dyck, De la Tour, Le Brun, Jones, and Wren in the context of contemporary events such as the Thirty Years' War and the Reformation, and of issues such as art versus craft, nationalism versus internationalism, individual genius versus market, colourism versus classicism, and collector versus connoisseur. By considering a broad range of artworks - from tapestry to painting, from etching to architecture - in terms of the maker, patron or client, and market, this survey seeks the underlying whys for this absorbing period. (Temporalities post-1500)

ARHS 3338 - Sacred and Profane: Spanish Art and Architecture
Credits: 3
Examines Spanish art and architecture through the lenses of art history and religious studies. Learning is primarily on-site in Madrid, focused on the period between 1500 and 1945. Class meets in the Museo del Prado, major architectural monuments, key urban spaces, and before selected paintings in the Museo Nacional Centro de Arte Reina Sofia (Picasso's Guernica) and the Museo Thyssen-Bornemisza. Emphasis is placed on experiential and collaborative learning as well as individual analysis and reflection. (SMU-in-Spain)

ARHS 3339 - El Greco to Goya: Spanish Painting of the Golden Age
Credits: 3
A survey of the painting traditions of Spain during the 15th through early 19th centuries. Includes artists such as El Greco, Velazquez, Ribera, Murillo, and Goya. Lectures are supplemented by direct study of Spanish paintings and prints in the Meadows Museum. (Temporalities post-1500)

ARHS 3340 - Visual Culture in Colonial Mexico
Credits: 3
The arrival of Europeans in the Americas in 1492 inaugurated one of the most remarkable and violent encounters in human history. This course examines the visual and material culture created in the aftermath of this cultural collision in Mexico, the former Viceroyalty of New Spain, from the 16th to 18th centuries. Topics include the interplay and creative synthesis of discrete European and indigenous visual cultures within the colonial sphere; the role of the arts in empire building; and feather work, manuscripts, painting, sculpture, architecture, urban planning, etc. as visual practices.

ARHS 3341 - Portraiture and Selfhood
Credits: 3
Examines the development of portraiture and self-portraiture against the backdrop of changing social, political, religious, and psychological constructs of the self, and in the contexts of artistic theory and practice. Topics include

the construction of gender; the reinforcement and subversion of class distinctions; the changing definition of citizenship, religious, and secular ideas of the self; national and racial identity in the context of colonization and global exchange; the artist's self-image; and the distinction between human and animal.

ARHS 3342 - The Art Market: Making, Selling, and Displaying Art in Early Modern and Modern Europe
Credits: 3
Examines how art was produced, sold, collected, and displayed in early modern and modern Europe. Includes case studies of different centuries and cultures, which might include 16th-century Italy, 17th-century Holland, 18th-century England, or 19th-century France. Students consider issues such as artists' education and self-promotion, the roles of private and governmental patronage, the development of art academies and public exhibitions, the circulation of art objects between Europe and non-European countries, the gendering of the production and consumption of art, and the rise of the dealer system.

ARHS 3343 - The Decorative Arts and the History of Dress in 18th-Century Europe
Credits: 3
Explores the history of production and consumption of the decorative arts and clothing in 18th-century Europe. Topics include how decorative objects and clothing were made and by whom, how styles evolved and in what political and social contexts, how consumers used objects to define themselves in and against society, and how objects and textiles circulated between Europe and the rest of the world. Also, the gendering of production and consumption, and the relationship between the luxury market and more affordable objects.

ARHS 3344 - Paintings at the Prado
Credits: 3
A study of Spanish paintings at the Prado Museum. Familiarizes students with the most relevant Spanish artists and offers a general European view through differences and affinities between Spain and the rest of the continent. (Temporalities post-1500) (SMU-in-Spain)

ARHS 3345 - Animals in Art
Credits: 3
Offers a broad overview of the representation of animals in the visual traditions of Europe and the Americas. Explores the history of the human impulse to picture animals, and the parallel history of visual analogies between human and animal bodies and minds. Familiarizes students with key works, artists, and artistic styles and movements of different periods.

ARHS 3346 - Paris Art and Architecture II
Credits: 3
Interweaves an investigation of the development of Paris from the Renaissance to the present with a history of French architecture during this period, revealing the major trends of both and their reciprocal relationship. Takes advantage of the Paris location to visit important monuments, buildings, and features of urban design. (Temporalities post-1500) (SMU-in-Paris)

ARHS 3347 - Longhouse to Land Art: A History of the American Built Environment
Credits: 3
A look at human interventions in the American landscape from the pre-Columbian period to the present. Touching on topics as diverse as ancient Puebloan cliff dwellings, the plantation landscape in the nineteenth century, and the post-World War II suburb, lectures and discussion reveal the American built environment as a site repeatedly reshaped in an on-going contest of cultures. In addition to a familiarity with the history of American architecture and landscape, students develop a working knowledge of architectural vocabulary and critical theory. (Temporalities post-1700)

ARHS 3348 - 18th-Century Art
Credits: 3
A study of European visual culture, 1700-1800, in its many contexts. Topics include art and the public sphere; the rise of museums, exhibitions, criticism, and theory; shifts in patronage and artistic practice; connections among

commerce, industry, and the arts; questions of identity; stylistic revivals and innovations; explorations of the past; and encounters with cultures outside Europe. (Temporalities post-1500)

ARHS 3349 - Hieroglyphs to Hypertext: The Art and History of the Book
Credits: 3
Examines the early development and the enduring cultural impact of the book - the physical format of written communication known as the codex, which has dominated the intellectual landscape for the past two millennia. Traverses the historical forms of written communication, including cuneiform, hieroglyphs, calligraphy, woodblock, letterpress printing, and the new dematerialized forms stored in digital information retrieval technologies. (Temporalities pre-1500)

ARHS 3350 - The Making of Modern Life: Art and Design in the 19th Century
Credits: 3
The making of the modern world as seen through images, objects, and architecture from the late eighteenth to the early twentieth century.

ARHS 3351 - British Art and Architecture: The Making of Modern Britain
Credits: 3
Surveys the history of art and architecture in Britain and Ireland, with a focus on the modern era roughly between the coronations of Henry VIII in 1503 and Elizabeth II in 1953. Includes a brief study of ancient Roman, Celtic, Viking, and Norman presence on the isles. Examines landscape traditions, portraiture, genre painting, history painting, the conversation piece, caricature and satire, and architecture and the built environment, with each situated within major developments in the nation's dynastic, political, and social history. The course is thematically focused on the question of how geography, ethnicity, and history have interacted over centuries in the production of concepts of national identity and national styles. Investigates strategies of place-making and space-taking in art and architecture as a form of cultural nation-building.

ARHS 3353 - American Art and Architecture to 1865
Credits: 3
A survey of American painting, sculpture, and architecture from the Colonial period through the Civil War.

ARHS 3354 - History and Theory of Prints
Credits: 3
Covers how prints are made and how they can function (newspapers, postage stamps, maps, works of art, etc.). Also, the history of printmaking; established and emerging printmakers and major printmaking techniques from the 15th through 21st centuries; and fundamental issues regarding originality and copying, uniqueness and multiplicity, display, and collecting as raised by the medium of print. Provides first-hand experience of prints through looking assignments, visits to local collections, and in-class exercises.

ARHS 3356 - Modern Architecture
Credits: 3
Western architecture from the late 19th century to the present, focusing on the protomodern trends of the late 19th century and the major masters of the modern movement: Sullivan, Wright, Gropius, Le Corbusier, and Mies van der Rohe. (Temporalities post-1500)

ARHS 3359 - Topics in Art History: International Studies
Credits: 3
Specific topics chosen by the instructor.

ARHS 3360 - Modern Painters in Spain
Credits: 3
Spanish art since the beginning of modernity in Spain from the early 19th century to the present. Focuses on the most important and internationally recognized Spanish painters of the 20th century (Picasso, Dali, and Miro) and

trends in painting. Special attention is given to integrating program activities into the syllabus, such as the study of Gaudi's architecture. (Temporalities post-1500) (SMU-in-Spain)

ARHS 3361 - Special Studies in Art History
Credits: 3
Specific topics chosen by the instructor.

ARHS 3363 - Topics in Brazilian Art and Architecture
Credits: 3
Explores Brazilian art and architecture from the encounter of the Portuguese with native peoples of the New World in 1500, through the long period of colonial history, to the vibrant contemporary arts of Brazil today. Topics include the complex tapestry of artistic and intercultural exchange among Brazil's Amerindian, African, and European populations; indigenous terra-forming; Tupi feather work, ceramics, and urban planning; European mapping of Brazil and the Amazon; religious art and architecture; Afro-Brazilian art forms and religious practices; Carnival and other performances of popular culture; the artistic production of the colonial period and the foundations of Brazilian modern art; video art during the dictatorship and contemporary allegories of underdevelopment; and historical artistic practices and their link to different national and international models for representing Brazilian national identity today, as well as their ethical, aesthetic, political, and/or social repercussions. (Temporalities post-1500; global perspectives)

ARHS 3365 - Race and Gender in Visual Culture
Credits: 3
The body is not just a compilation of organs. It is a site through which this era's most contentious political discussions (e.g., human rights violations, racism, and sexism) are experienced. This course explores the complex interconnections among race, gender, and politics in visual culture. Analyzes how these identities, locations, and markers are constructed and deployed in various media, including painting, photography, and TV. (Temporalities post-1500; methods and theories)

ARHS 3366 - Picasso, O'Keeffe, and Dali: The Rise of Modern Art
Credits: 3
Addresses the wide array of modern art movements in Europe and the Americas from 1880 to 1945. The movements of Post-Impressionism, Fauvism, Cubism, Dada, Constructivism, Surrealism, and Abstract Expressionism are examined and situated within larger artistic and social contexts.

ARHS 3367 - History of Photography I: Origins-1940
Credits: 3
Examines the origins of photography in the early 19th century, when photography emerged as part of a late-Enlightenment scientific discourse and was interwoven with a wide array of new institutional spaces, including botany, anthropology, and geology. Also, photography on the battlefield and in prisons, the emergence of documentary photography and the role that medium played in shaping consumer culture, and the emergence of art photography, from Victorian peasant imagery to Precisionist portrayals of skyscrapers in the 1930s. (Temporalities post-1500)

ARHS 3368 - Art and Context: 1940-1970
Credits: 3
An international survey of modern art during 1940-1970 that looks at the postwar development of modernist, formalist, figurative, realist, and antimodernist art in a social historical context, with particular attention to the cultural impact of World War II, the ideological conflicts and geopolitics of the Cold War, and the social and political upheaval of the 1960s. Also, the relevant histories of gender, sexual, racial, regional, and national identity in America and other industrialized nations (Britain, France, Germany, Italy, the Soviet Union, and Japan.) (Temporalities post-1500)

ARHS 3369 - Contemporary Art: 1965-Present
Credits: 3
An international survey of contemporary art from 1965 to the present, with specific attention to the rise of the current proliferation of new modes and new media in art (multimedia, installation, performance, site-specificity, video, interactive, and digital art), locating its origins in the social upheaval and shifting artistic practices at the close of the 1960s. Also, contemporary art practices as they relate to a range of influential developments in critical theory, social history, and local and global visual cultures. (Temporalities post-1500)

ARHS 3372 - African Art
Credits: 3
Focuses on art in African societies, from ancestral times to the present, analyzing their artistic ideals, principles, practices, and creations as well as their modes of reception and interpretation of art. The artistic unfolding of the contact of African societies with each other and with others outside Africa is also studied.

ARHS 3373 - African Festival and Masquerade
Credits: 3
Explores African festival arts from the nineteenth century to the present and introduces the arts of various African peoples—including masquerade, regalia, and performance—in historical, religious, ethnographic, and geographic context. African communities draw inspiration from sources including Hindu images and Afro-Catholic Festivals in the Americas to curate local beauty pageants, environmentally conscious street art, and lavish beaded regalia. Through field footage, ethnographic texts, and visual analysis of contemporary exhibitions, music videos, and documentary films, the course engages the wealth and breadth of African masquerade practices and presents new approaches to histories of live and performance art.

ARHS 3374 - American Art and Architecture, 1865-1940
Credits: 3
Provides a stylistic and iconographic survey of American painting, sculpture, photography, and architecture from 1865 to 1940 and attempts to situate the images within their specific cultural contexts. Also, broad underlying issues such as nationalism, class, race, and gender. Group discussions on the strengths, assumptions, and weaknesses of these interpretations are relevant for the students' research, thinking, and writing. (Temporalities post-1500)

ARHS 3375 - Art in the Fight for Freedom: Afro-Latin American Art
Credits: 3
Focuses on art in the diaspora of African peoples in Latin America, from the fifteenth century to the present. Analyzes the survival and reinvention of African artistic cultures in Latin America in their confrontation with artistic practices derived from Western and indigenous art systems, in the midst of slave trade and slavery, and in the struggles for freedom and social equality.

ARHS 3376 - Latin American Art
Credits: 3
A survey of art and architecture in Latin America from the initial contacts between European and American civilizations until the 20th century. (Temporalities post-1500; global perspectives)

ARHS 3377 - Art and Architecture of Hispanic New Mexico
Credits: 3
Examines the artistic and cultural legacies of colonial New Mexico: Spanish city planning and church design; "retablos," "santos," and their place in religious experience; and art in the secular life of towns and haciendas of colonial and postcolonial New Mexico. Field trips to galleries, collections, and historical sites of northern Mexico. (Temporalities post–1500; global perspectives) (SMU–in–Taos)

ARHS 3380 - History of Photography II: 1940-Present
Credits: 3
A survey of the history of photographic media from 1940 to the present, with particular emphasis on the still photograph in its various uses as art, document, aide-memoire, amateur pursuit, and social practice. Examines photographic images and image-makers in relation to the social historical contexts in which they are produced, the

evolution of photographic technologies, and the idea of the photographic image as it appears in and is transformed through TV, video, film, conceptual art, and new media.

ARHS 3381 - Gender and Sexuality in the Visual Arts
Credits: 3
Considers the representation of gender and sexuality in the visual arts, as well as the gendering of art production, patronage, and viewership. Topics may include the work of female artists, representations of male and female bodies, the role of the visual arts in constructing, subverting, norms of gender and sexuality, and the gendering of art theory and the art historical canon.

ARHS 3387 - Picturing Children and the Family in Art: 1850 to the Present
Credits: 3
Considers changing representations of children and the family in art from 1850 to the present. Artworks will be studied in relation to theoretical and literary texts, from Lewis Carroll's 'Alice in Wonderland' to Melanie Klein's research on the emotional development of children. Key topics will include the perceived relationship between childhood and artistic creativity, the representation of gender and sexuality, family members as artistic collaborators, and the changing structure of the family in the twenty-first century.

ARHS 3389 - Art of the Moving Image
Credits: 3
Considers how artists have made use of moving images in film, television, video, animation, and 3D projection, from the 1920s to the present day. Discusses how the uses of these media by artists intersect with and diverge from their uses in the film and television industries. Students will develop an in-depth knowledge of art of the moving image and an awareness of key themes and issues in film and media studies.

ARHS 3393 - Culture of Oaxaca: A Sense of Place
Credits: 3
Learning adventure in Oaxaca: exploration of multilayered cultural history through field trips to artists' workshops, museums, archaeological sites, and religious fiestas. The focus is on art, art history, folklore, and religion. Lectures, readings, discussion, essays, interviews and photographs of artists for student projects, and numerous field trips provide a broad exposure to Oaxacan culture. (Global perspectives) (SMU-in-Oaxaca)

ARHS 3394 - Art and Architecture of Japan
Credits: 3
A survey of religious and secular arts from prehistoric times through the Edo period. Field trips to Kyoto and Nara. (Temporalities pre-1500; global perspectives) (SMU-in-Japan)

ARHS 3398 - Introduction to Museum Studies
Credits: 3
Introduces art history majors and graduate students to the basic principles of connoisseurship, conservation, framing, lighting, and exhibition design in the context of the art museum today, with emphasis on the interpretative, cultural, and social role of museums over time. Evaluates specific collections and exhibitions in area museums and examines a number of private collections, challenging students to make quality judgments based upon objective criteria and intuitive response. Students assess the meaning of art through visual analysis and comparison. The efficacy and ethics of museum management are considered.

ARHS 4101 - Directed Studies and Tutorials
Credits: 1
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4102 - Directed Studies and Tutorials
Credits: 1
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4111 - Undergraduate Museum Internship
Credits: 1
Available to majors with a GPA of 3.000 or higher.

ARHS 4201 - Directed Studies and Tutorials
Credits: 2
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4202 - Directed Studies and Tutorials
Credits: 2
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4211 - Undergraduate Museum Internship
Credits: 2
Available to majors with a GPA of 3.000 or higher.

ARHS 4301 - Directed Studies and Tutorials
Credits: 3
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4302 - Directed Studies and Tutorials
Credits: 3
Independent study for undergraduate majors under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. Instructor permission required.

ARHS 4304 - The City as Place
Credits: 3
Given to us by ancient Roman reality and myth, the distinction between the city as a physical place ("urbs") and the city as an idea ("orbis") created a long–standing link between territory and ritual, locale and law, nation and citizen, and homeland and world. Students investigate the city in Italy in space and time as it is the locus of such cultural to–and–fro. The goal is to better understand the complexities of the Italian city as a living entity. The period of study spans some 3,000 years, from the Etruscan foundations of Rome to Richard Meier's Jubilee Church, located along the suburban periphery of the city. Topics include the Italian city of antiquity, early Christianity, the Middle Ages, the Renaissance, the Baroque era, and modernism. Includes city and museum tours, lecture, readings, discussion, and short essays. (Temporalities pre– and post–1500) (SMU–in–Italy)

ARHS 4310 - Seminar on Ancient Art
Credits: 3
Specific topics chosen by the instructor. (Methods and theories)

ARHS 4311 - Undergraduate Museum Internship
Credits: 3
Available to majors with a GPA of 3.000 or higher.

ARHS 4312 - Special Topics on 18th-Century Art and/or Architecture
Credits: 3
Seminar course on 18th-century art and/or architecture, with specific topics chosen by the instructor.

ARHS 4320 - Seminar on Medieval Art
Credits: 3
Specific topics chosen by the instructor. (Methods and theories)

ARHS 4322 - Museum Theory
Credits: 3
Specific topics chosen by the instructor.

ARHS 4330 - Seminar on Early Modern Art
Credits: 3
Specific topics chosen by the instructor. (Methods and theories seminar)

ARHS 4331 - Seminar on Spanish Art
Credits: 3
Specific topics chosen by the instructor. (Methods and theories)

ARHS 4349 - Seminar on Contemporary Art
Credits: 3
Specific topics for investigation are chosen by the instructor. (Methods and theories)

ARHS 4350 - Seminar on Modern Art
Credits: 3
Specific topics chosen by the instructor. (Methods and theories)

ARHS 4362 - The City of New York
Credits: 3
This course examines the changing art and architecture of the city of New York from the 18th century to the present.

ARHS 4380 - Seminar on World Art
Credits: 3
Specific topics chosen by the instructor.

ARHS 4391 - Art History Honors Thesis
Credits: 3
First of a two-part Art History Honors Program sequence. Research-based directed study with thesis adviser. Instructor permission required.

ARHS 4392 - Art History Honors Thesis
Credits: 3
Second of a two-part Art History Honors Program sequence. Completion of writing honors thesis. Prerequisite: ARHS 4391. Instructor permission required.

ARHS 4399 - Research and Methods in Art History
Credits: 3
This seminar introduces students to seminal texts and contemporary debates in the research and writing of art

history. Each week is devoted to a fundamental critical issue raised in the study of images and objects, including form, materials, content, context, connoisseurship, taste, biography, iconography, social identity, politics, ideology, class, and economics. Students read, discuss, and compare the many methods adopted by art historians and use those methods in discussions of objects in Dallas/Fort Worth collections. The course also contains a research and writing workshop component in which students are introduced to research tools, taught writing skills specific to art history, and guided through the process of conducting scholarly research. Enrollment is required for art history majors and is a prerequisite to all other 4000-level seminars. (Methods and theories)

ARHS 5101 - Directed Studies
Credits: 1
To be arranged with permission of the adviser and the faculty members directing the studies project.

ARHS 5102 - Directed Studies
Credits: 1
To be arranged with permission of the adviser and the faculty members directing the studies project.

Arts Management and Arts Entrepreneurship

Associate Professor Sandra Duhe, **Division Chair** *ad interim*

Professor: Zannie Giraud Voss
Professor of Practice: Jim Hart, Director of Arts Entrepreneurship
Adjunct Professors: Lisa Bury, Maria May, Jill Robinson
Adjunct Lecturers: James Jillson, Maureen Mixtacki, Andrea Perez

General Information

The Division of Arts Management and Arts Entrepreneurship offers two undergraduate minors. Each minor requires 10 credit hours.

The minor in arts entrepreneurship provides an overview of how to develop and launch a new arts venture, either for-profit or nonprofit.

The minor in arts management provides an overview of how professional arts organizations are managed, with an emphasis on understanding the practical issues facing today's arts manager.

Students may complete both a minor in arts entrepreneurship and a minor in arts management by completing all requirements for each minor, but no single course may count for elective credit toward each minor. A dual minor in Arts Management and Arts Entrepreneurship requires 15 credits in the core AMAE classes and 12 credit hours of electives for a total of 27 credit hours.

Arts Entrepreneurship Minor

Requirements for the Minor (18 Credit Hours)

Core Requirements (12 Credit Hours)

- AMAE 3301 - Introduction to Arts Management
- AMAE 3305 - Budgeting and Financial Literacy in the Arts
- AMAE 3387 - Creative Entrepreneurship and Attracting Capital
- AMAE 4390 - Developing Creative Strategies: Planning for Success

Elective Course (6 Credit Hours)

Six credit hours from the following, with at least three credit hours at the 3000-level or above:

- ADV 1300 - Survey of Advertising
- ADV 1321 - Introduction to Creativity
- ADV 1341 - Marketing Principles of Advertising
- ADV 1360 - Creative Production
- ADV 2322 - Concepting
- ADV 2332 - Digital Media Strategy 1
- ADV 3323 - Introduction to Graphic Design
- ADV 4333 - Topics in Digital Media Marketing
- ADV 4342 - Strategic Brand Management 3
- ADV 4343 - Strategic Promotion Management
- AMAE 3322 - Marketing the Arts
- AMAE 3370 - Entrepreneurship and the Hero Adventure
- AMAE 4321 - Law and the Arts
- ANTH 3344 - Cultural Aspects of Business
- ARHS 3342 - The Art Market: Making, Selling, and Displaying Art in Early Modern and Modern Europe
- ASAG 1375 - Introduction to Social Practice
- ASAG 5310 - Professional Practice in Art
- ASIM 1300 - Introduction to Digital/Hybrid Media
- ASIM 1310 - Creative Coding I

- ASIM 5320 - Aesthetics and Computation
- ASPH 1310 - Introduction to Video
- ASPH 3304 - Digital Tools
- CCPA 2375 - Communication Research and Data Analytics
- CCPA 3335 - Principles of Digital Communication and Social Media
- CCPA 3345 - Persuasion Theory and Practice
- CCPA 3355 - Principles of Public Relations
- CCPA 3368 - Group and Team Communication and Leadership
- CCPA 3370 - Principles of Social Innovation: Creating World Changers
- CCPA 3380 - Principles of Nonprofit Organizing
- CCPA 4335 - Advanced Digital Communication
- CCPA 4340 - Corporate Finance and Public Relations Strategy
- CCPA 4376 - Social Entrepreneurship: Creating a Movement and Innovating Through the Social Good
- CCPA 4395 - Boulevard Consulting Practicum
- CCPA 5303 - Topics in Social Innovation and Nonprofit Engagement
- CRCP 1310 - Creative Coding I
- CRCP 3310 - Data: Meaning, Narrative, and Discovery
- CRCP 3320 - Postmodern Software Design
- DANC 3366 - Dance Pedagogy
- FILM 2304 - Creativity and Ideation
- FILM 3302 - Convergent Media
- FILM 3304 - Production 2
- FILM 3306 - Nonfiction Production
- FILM 4301 - TV Ad Concepting and Production
- FILM 4302 - Online Media Distribution
- FILM 4316 - Producers' Seminar
- FILM 5312 - Media Career Preparation
- JOUR 3327 - Media and the Business of Fashion
- JOUR 3355 - Media Entrepreneurship
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- MNO 4371 - Leadership and Culture
- MUAS 5320 - Recording Technology
- MUAS 5322 - Analysis of Music Production
- MUTH 3117 - Songwriting Laboratory
- MUTH 3217 - Songwriting
- THEA 2361 - Introduction to Stage Management

Arts Management Minor

Requirements for the Minor

Core Requirements (12 Credit Hours)

- AMAE 3301 - Introduction to Arts Management
- AMAE 3305 - Budgeting and Financial Literacy in the Arts

- AMAE 3387 - Creative Entrepreneurship and Attracting Capital
  or
- CCPA 3387 - Donor Communication

- AMAE 4326 - Cultural Policy

Elective Course (3 Credit Hours)

- ADV 1300 - Survey of Advertising
- ADV 1360 - Creative Production

- ADV 2301 - Consumer Behavior
- ADV 4343 - Strategic Promotion Management
- AMAE 3322 - Marketing the Arts
- APSM 4372 - Sport Facility and Event Management
- CCPA 3355 - Principles of Public Relations
- CCPA 3380 - Principles of Nonprofit Organizing

Additional Elective Course (3 Credit Hours)

One additional course from the list above or one from the following with instructor approval:

- AMAE 4321 - Law and the Arts
- ASAG 3350 - Art Colloquium: New York
- CCPA 3360 - Business and Professional Communication
- CCPA 3365 - Principles of Organizational Communication
- FILM 3335 - Film Exhibition and Distribution
- FILM 4316 - Producers' Seminar
- FILM 4399 - Global Media Systems
- MNO 3375 - Corporate Social Responsibility and Ethical Leadership
- MNO 4371 - Leadership and Culture
- THEA 4309 - Business and Professional Aspects of Theatre

Arts Management and Arts Entrepreneurship Courses

AMAE 3301 - Introduction to Arts Management
Credits: 3
Provides a foundation in the management of arts organizations, creative enterprises, and other endeavors. Students explore key issues in the management of arts organizations and events at local, regional, national, and international levels.

AMAE 3305 - Budgeting and Financial Literacy in the Arts
Credits: 3
Students learn techniques for understanding the financial skills needed to manage arts-related businesses and creative entrepreneurship endeavors from a practical perspective. Activities include exploring the various structures for arts entities and artists; preparing a mission statement and budget; and learning how to read, analyze, and understand financial reports; implement internal controls and policies and procedures; and how to understand relevant audit, tax, and financial reporting requirements.

AMAE 3322 - Marketing the Arts
Credits: 3
Introduces the fundamental concepts of marketing and their practical implementation by arts organizations and arts professionals. Discussion of examples and cases help illustrate applications of theory and familiarize students with essentials such as the production, pricing, promotion, and delivering of arts goods and services to audiences, markets, and the community.

AMAE 3370 - Entrepreneurship and the Hero Adventure
Credits: 3
Considering the risk, obstacles, competition, and demands for change and adaptability in today's ever-evolving arts market, how do artists and arts entrepreneurs not only survive, but also thrive? Students draw parallels between the "hero journey" structure in storytelling and the grand adventure of entrepreneurship to gain perspective and a practical structure and lens that they can utilize to help build a unique career and life in the arts. Students learn how to take bold but educated risks, how to carve out a niche within the market, and how to persevere in the face of seemingly insurmountable odds.

AMAE 3387 - Creative Entrepreneurship and Attracting Capital
Credits: 3
Students explore ways to attract capital. Topics include crowdfunding, event-based fundraising, pitching angel investors and venture capitalists, grant writing, bartering, acting entrepreneurially in existing organizations, startup processes, and other key topics of creative entrepreneurship.

AMAE 4321 - Law and the Arts
Credits: 3
Students examine, debate, and critically assess legal and ethical aspects of the creation, collection, and preservation of works of art and antiquity; the management of intellectual property and related rights in works of visual and performing arts; relationships between and among creators, performers, dealers, collectors, theatres, museums, and the public; and broader domestic and international issues impacting the art world.

AMAE 4326 - Cultural Policy
Credits: 3
An overview of policy analysis and practice of the cultural sector in its different areas (heritage, visual, performing arts, etc.) and perspectives. Analyzes historical and theoretical backgrounds of cultural policy; cultural policies in practice (stylized facts and geographical and political divergence at the local, national, and international level); evaluation of cultural policies and their socioeconomic impact; culture, diversity, and development; cultural access and arts education.

AMAE 4390 - Developing Creative Strategies: Planning for Success
Credits: 3
Students brainstorm; develop original concepts; and explore business models, team-building, and innovation to create a plan of action for a career in the arts and creative economy.

Corporate Communication and Public Affairs

Associate Professor Sandra Duhé, **Division Chair**

Professor: Rita Kirk
Associate Professors: Maria Dixon, Sandra Duhé, Owen Lynch, Stephanie Martin
Assistant Professor: Piyawan Charoensap-Kelly
Senior Lecturer: Christopher Salinas
Professor of Practice: Kim Commerato, Doric Earle, Steve Lee
Adjunct Lecturers: Christina Coats, Rosanne Hart, Matthew Jacob, Liz Navarro

General Information

The Division of Corporate Communication and Public Affairs offers a B.A. and a minor in corporate communication and public affairs and a B.A. in public relations and strategic communication. In each of these programs, the division educates students to apply intellectual rigor and integrity to communication theory and practice in research, strategy, consulting, and advocacy. Students may pursue a double major in corporate communication and public affairs and in public relations and strategic communication; certain restrictions apply.

Students seeking an undergraduate degree in corporate communication and public affairs and/or public relations and strategic communication receive a broad background in the liberal arts, followed by a major curriculum that prepares them for graduate study or professional work in agencies, corporations, nonprofit organizations, government and associations, as well as cultural, legal and political institutions.

Students develop requisite communication and professional skills, gain awareness of the ethical responsibilities of communication leaders, and develop the communication and management capabilities required for success in a global environment.

In addition to major coursework in the division, students must complete a minor or an additional major. Students seeking to double major or minor in another communication-related field may need to complete more than the minimum 120 total hours required for graduation.

In addition to those requirements of the University and Meadows School of the Arts, undergraduate students wishing to major or minor in corporate communication and public affairs or major in public relations and strategic communication must meet minimum GPA requirements and meet the specific admission requirements for their area of study outlined below.

Admission to Corporate Communication and Public Affairs. To declare a major (or minor) in corporate communication and public affairs, students must complete the following courses with a cumulative minimum 3.000 GPA and no grade lower than a *C* among them.

- STAT 2331
- CCPA 2310
- CCPA 2327

Admission to Public Relations and Strategic Communication. To declare a major (or minor) in public relations and strategic communication, students must complete the following courses with a cumulative minimum 3.000 GPA and no grade lower than a *C* among them.

- STAT 2331
- CCPA 2327
- CCPA 3300

CCPA coursework may not be repeated without faculty consent and approval from the chair of corporate communication and public affairs. STAT may be repeated without CCPA consent.

Special Requirements

- Transfer hours for major credit may be considered on petition and with approval of the chair. Courses satisfying major requirements are expected to be taken at SMU.
- Students must earn a grade of C (not C-) or better for coursework toward their program's major or minor requirements.

- Students majoring in corporate communication and public affairs must select and complete a focused track in social innovation and nonprofit engagement, organizational communication, or political communication per course requirements outlined in the description of the major.
- Public relations and strategic communication majors may choose to double major in advertising, journalism or corporate communication and public affairs; restrictions apply to which courses may be double counted.
- Public relations and strategic communication majors may use credits in CCPA 3300 and/or CCPA 4386, and/or toward a double major in corporate communication and public affairs.
- Public relations and strategic communication majors may not use credits in CCPA 3300, CCPA 3310, CCPA 3335, CCPA 3355, CCPA 3360, CCPA 3382, CCPA 4125, CCPA 4130, CCPA 4225, CCPA 4320, CCPA 4325, CCPA 4335, CCPA 4338, CCPA 4340, CCPA 4386, CCPA 4394, CCPA 4395, CCPA 4396, CCPA 4397, or CCPA 5306 toward elective credit for a minor in corporate communication and public affairs.
- Attendance is required on the first day of class in CCPA courses to prevent being dropped from the course.
- Students who do not meet enrollment requirements may be administratively dropped from a CCPA course.
- Students who do not meet GPA requirements to declare a major or minor in the division will not be permitted to enroll in major or minor coursework.

Scholarships. Communication honors scholarships are awarded each year to outstanding majors in the division. The Charles Douglas Bauer Scholarship Fund and Advisory Board funds provide competitive scholarships available to division majors through an annual application process.

Pre-Law Scholars Program. The Division of Corporate Communication and Public Affairs offers a one credit hour elective course exclusively for students in SMU's Pre-Law Scholars Program. Enrollment in the program provides preferred access for admission to the highly rated Dedman School of Law at SMU. Additional information is available from SMU's Division of Enrollment Services.

Honors Program

Students may apply for admission to the honors track after completion of 45 hours with a 3.500 overall GPA or better. To graduate with distinction, students must take six hours of honors-designated corporate communication and public affairs courses and CCPA 4375. Students accepted to the honors track must maintain a 3.500 or higher overall GPA in all SMU coursework to graduate with the honors distinction. The top 10 percent of each class is eligible for faculty nomination to Kappa Tau Alpha, the national communication honorary society.

Corporate Communication and Public Affairs, B.A.

Admission Requirements

Students planning to major or minor in corporate communication and public affairs must complete:

- STAT 2331
- CCPA 2310
- CCPA 2327

with a minimum 3.000 GPA across STAT 2331, CCPA 2310 and CCPA 2327, and no grade lower than a C in any of the three courses.

CCPA coursework may not be repeated without faculty consent and approval from the chair of corporate communication and public affairs. STAT may be repeated without CCPA consent.

Students must earn a grade of C (not C-) or better for coursework toward major requirements.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Requirements (12 Credit Hours)

CCPA 2310 and CCPA 2327 are required prior to entry into the major.

- CCPA 2308 - Introduction to Newswriting for Public Relations
  or
- CCPA 3360 - Business and Professional Communication
  or
- JOUR 2312 - News Reporting (for declared journalism majors or minors)

- CCPA 2310 - Rhetoric, Community, and Public Deliberation
- CCPA 2327 - Communication Theory
- CCPA 2375 - Communication Research and Data Analytics

Course Requirements (9 Credit Hours)

Enrollment is contingent upon successful completion of all core requirements.

- CCPA 2300 - Public Speaking in Context
- 3 credit hours from an additional CCPA practicum or a CCPA elective at the 3000 level or above

3 practicum credit hours from

- CCPA 4325 - Organizations in Local Context
- CCPA 4375 - Honors Thesis in Communication
- CCPA 4392 - Mustang Consulting I: Introduction to Communication Consulting
- CCPA 4393 - Mustang Consulting II: Advanced Communication Consulting
- CCPA 4394 - Mustang Consulting III: Leadership Practicum
- CCPA 4396 - Mustang Consulting Internship
- CCPA 4398 - CCPA Fellow: Internship
- CCPA 5315 - Directed Study in Engaged Learning
- CCPA 5320 - Directed Study in Big Ideas
- CCPA 5325 - Directed Study in Caswell Fellowship

Intercultural/International Requirement (3 Credit Hours)

- CCPA 3321 - Communication in Global Context
- CCPA 3341 - Ethnicity, Culture, and Gender: Introduction to Critical Studies in Communication
- CCPA 4310 - History and Philosophy of Free Speech
- CCPA 4385 - Communication, Technology, and Globalization
- CCPA 4390 - Globalization, Economics, and Communication

Track-Specific Requirements (12 Credit Hours)

Majors must complete all course requirements under one of the following tracks:

Social Innovation and Nonprofit Engagement

- CCPA 3365 - Principles of Organizational Communication
- CCPA 3380 - Principles of Nonprofit Organizing
- CCPA 4386 - Financial Communication

and one of the following:

- CCPA 3370 - Principles of Social Innovation: Creating World Changers
- CCPA 3387 - Donor Communication
- SOCI 4351 - Nonprofit Fundraising and Grant Writing
- AMAE 3305 - Budgeting and Financial Literacy in the Arts
- CCPA 4312 - Seminar in Social Innovation and Nonprofit Engagement
- CCPA 4376 - Social Entrepreneurship: Creating a Movement and Innovating Through the Social Good

- CCPA 4378 - Social Entrepreneurship and Stewardship in the Faith-Based Organization
- CCPA 4380 - Social Entrepreneurship, Capitalism, and the Wesleyan Tradition
- CCPA 4390 - Globalization, Economics, and Communication
- CCPA 5303 - Topics in Social Innovation and Nonprofit Engagement
- SOCI 4399 - Special Topics: Sociology Seminar with a non-profit focus

Organizational Communication

- CCPA 3365 - Principles of Organizational Communication
- CCPA 3390 - Applied Organizational Communication
- CCPA 4386 - Financial Communication

and one of the following:

- CCPA 3368 - Group and Team Communication and Leadership
- CCPA 3370 - Principles of Social Innovation: Creating World Changers
- CCPA 4345 - Seminar in Organizational Communication
- CCPA 4378 - Social Entrepreneurship and Stewardship in the Faith-Based Organization
- CCPA 4390 - Globalization, Economics, and Communication
- CCPA 5304 - Topics in Organizational Communication

Public Affairs and Political Communication

- CCPA 3300 - Free Speech and the First Amendment
- CCPA 3347 - Principles of Political Communication
- CCPA 3393 - Politics and the Public Sphere

and one of the following:

- CCPA 3395 - Public Opinion, the Press, and Public Policy
- CCPA 4300 - Seminar in Political Communication
- CCPA 4310 - History and Philosophy of Free Speech
- CCPA 4390 - Globalization, Economics, and Communication
- CCPA 5305 - Topics in Political Communication

Ethics Course Requirement (3 Credit Hours)

One course from the following:

- ADV 2302 - Advertising, Society, and Ethics
- ANTH 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society
- ANTH 3336 - Gender and Globalization: Cultural and Ethical Issues
- CCPA 2328 - Communication Ethics
- ENGL 3367 - Ethical Implications of Children's Literature
- JOUR 2302 - Ethics of Convergent Media
- PHIL 1316 - Introduction to Ethics
- PHIL 1317 - Business Ethics
- PHIL 1318 - Contemporary Moral Problems
- PHIL 3375 - Topics in Moral Philosophy
- PHIL 3380 - Ethics: Morality, Self-Interest, and Justice
- RELI 3308 - Christian Ethics and Moral Issues
- RELI 3309 - Bioethics From a Christian Perspective
- SOCI 3301 - Health, Healing, and Ethics: Cross-Cultural Perspectives on Sickness and Society

Second Major or Minor

To be determined with counsel of adviser; hours vary according to choice.

Total for the Major Only: 39 Credit Hours

Public Relations and Strategic Communication, B.A.

Admission Requirements

Students planning to major in public relations and strategic communication must complete:

- STAT 2331
- CCPA 2327
- CCPA 3300

with a minimum 3.000 GPA across STAT 2331, CCPA 2327, and CCPA 3300, and no grade lower than a C in any of the three courses.

CCPA coursework may not be repeated without faculty consent and approval from the chair of corporate communication and public affairs. STAT may be repeated without CCPA consent.

Students must earn a grade of C (not C-) or better for coursework toward major requirements.Public relations and strategic communication majors may choose to double major in advertising, journalism or corporate communication and public affairs; restrictions apply to which courses may be double counted.

Public relations and strategic communication majors may use credits in CCPA 3300, CCPA 4386, and/or CCPA 4395 toward a double major in corporate communication and public affairs.

Public relations and strategic communication majors may not use credits in CCPA 3300, CCPA 3310, CCPA 3335, CCPA 3355, CCPA 3360, CCPA 3382, CCPA 4125, CCPA 4130, CCPA 4225, CCPA 4320, CCPA 4325, CCPA 4335, CCPA 4338, CCPA 4340, CCPA 4386, CCPA 4394, CCPA 4395, CCPA 4396, CCPA 4397, or CCPA 5306 toward elective credit for a minor in corporate communication and public affairs.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Requirements (12 Credit Hours)

- CCPA 2327 - Communication Theory

- CCPA 3300 - Free Speech and the First Amendment
  or
- JOUR 4316 - Communication Law (for declared journalism majors or minors only)

- CCPA 2375 - Communication Research and Data Analytics
  or
- ADV 3304 - Advertising Research (for declared advertising majors only)

- CCPA 3355 - Principles of Public Relations

Course Requirements (16 Credit Hours)

Enrollment is contingent upon successful completion of all core requirements.

- CCPA 2300 - Public Speaking in Context

- CCPA 2308 - Introduction to Newswriting for Public Relations
  or
- JOUR 2312 - News Reporting (for declared journalism majors or minors only)

- CCPA 3382 - Advanced Writing for Public Relations

- CCPA 3310 - Crisis Management
- CCPA 4130 - Professional Seminar

- CCPA 4340 - Corporate Finance and Public Relations Strategy
  or
- CCPA 4386 - Financial Communication
  or
- CCPA 4397 - Fashion Industry Public Relations Strategy (for declared fashion media majors only)

Media/Technology Electives (6 Credit Hours)

- CCPA 3335 - Principles of Digital Communication and Social Media

and one of the following:

Declared Journalism majors may also choose JOUR 4398.

- ADV 1360 - Creative Production
- ASIM 1300 - Introduction to Digital/Hybrid Media
- ASIM 1310 - Creative Coding I
- CCPA 4335 - Advanced Digital Communication
- CCPA 4338 - Creative Production for Communicators
- FILM 1304 - Production 1 (closed to seniors)
- JOUR 2304 - Video and Audio Production
- JOUR 3357 - Photojournalism

Campaigns (3 Credit Hours)

- CCPA 4394 - Mustang Consulting III: Leadership Practicum
- CCPA 4395 - Boulevard Consulting Practicum
- (or ADV 4399 for declared advertising majors)

Second Major or Minor

To be determined with counsel of adviser; hours vary according to choice.

Total for the Major Only: 37 Credit Hours

Notes

Public relations and strategic communication majors are required to meet the following additional requirements as part of the corporate communication and public affairs curriculum or as part of the University Curriculum.

- **Ethics.** Suggested: CCPA 2328 or JOUR 2302 (or ADV 2302 for declared advertising majors or minors). Other courses that may meet the ethics requirement are ANTH 3301, ANTH 3336, ENGL 3367, PHIL 1316, PHIL 1317, PHIL 1318, PHIL 3375, PHIL 3380, RELI 3308, RELI 3309, SOCI 3301.
- **Local Contexts.** CCPA 4320 or CCPA 4396 or CCPA 4398 (or CCPA 4325 for declared corporate communication and public affairs majors or CCPA 4125 or CCPA 4225 for declared double majors who complete a three credit hour internship in advertising, public relations or journalism). Students who double major in public relations and strategic communication and in advertising, corporate communication and public affairs or journalism must earn a minimum of four but no more than six total credit hours of internship. At least one credit hour must be earned in CCPA internship credit.
- **Intercultural/International.** CCPA 3321, CCPA 3341, CCPA 4310, CCPA 4385 or CCPA 4390 or JOUR 4360 (or ADV 2343 for declared advertising majors).

Corporate Communication and Public Affairs Minor

To declare a minor in corporate communication and public affairs, students must meet complete:

- STAT 2331
- CCPA 2310
- CCPA 2327

with a minimum 3.000 GPA across STAT 2331, CCPA 2310, and CCPA 2327, and no grade lower than a C in any of the three courses.

CCPA coursework may not be repeated without faculty consent and approval from the chair of corporate communication and public affairs. STAT may be repeated without CCPA consent.

Students must earn a grade of C (not C-) or better for coursework toward minor requirements.

Students must be accepted into the program prior to enrollment in upper-division courses.

Requirements for the Minor

Core Requirements (12 Credit Hours)

- CCPA 2308 - Introduction to Newswriting for Public Relations
  or
- CCPA 3360 - Business and Professional Communication

- CCPA 2310 - Rhetoric, Community, and Public Deliberation
- CCPA 2327 - Communication Theory
- CCPA 2375 - Communication Research and Data Analytics

Electives (9 Credit Hours)

Selected from CCPA courses at the 3000 level or higher.

Note: Public relations and strategic communication majors may not use credits in CCPA 3300, CCPA 3310, CCPA 3335, CCPA 3355, CCPA 3360, CCPA 3382, CCPA 4125, CCPA 4130, CCPA 4225, CCPA 4320, CCPA 4325, CCPA 4335, CCPA 4338, CCPA 4340, CCPA 4386, CCPA 4394, CCPA 4395, CCPA 4396, CCPA 4397, or CCPA 5306 toward elective credit for a minor in corporate communication and public affairs.

Total: 21 Credit Hours

Corporate Communication and Public Affairs Courses

CCPA 1301 - Survey of Corporate Communication and Public Affairs
Credits: 3
Introduces students interested in majoring in CCPA to the different areas of study and career opportunities available in corporate communication and public affairs. Includes speakers, exercises, and personal assessments to plan one's path through the major. Restricted to students with 75 or fewer total credit hours.

CCPA 2300 - Public Speaking in Context
Credits: 3
Introduces the theory and practice of public speaking, including rhetorical principles, evidence, nonverbal communication, and visual aids. Prerequisite: Restricted to corporate communications and public affairs or public relations and strategic communication majors or law and legal reasoning minors.

CCPA 2301 - Special Topics: Communication, International Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Corporate Communication and Public Affairs chair.

CCPA 2302 - Special Topics: Communication, International Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Corporate Communication and Public Affairs chair.

CCPA 2303 - Special Topics: Communication, International Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Corporate Communication and Public Affairs chair.

CCPA 2308 - Introduction to Newswriting for Public Relations
Credits: 3
Introduces basic media writing, research, and interviewing skills, as well as AP style for news, features, and press releases. Prerequisites: C or better in CCPA 2310 (or CCPA 3300); CCPA 2327; and STAT 2331 (or ITOM 2305).

CCPA 2310 - Rhetoric, Community, and Public Deliberation
Credits: 3
Examines the role of rhetoric and public deliberation in the production and maintenance of communities and the larger public sphere. Topics include the formation and rhetoric of the civil rights movement, the structural factors impacting the modern public sphere, and the skills necessary to be an informed citizen. Prerequisite: Sophomore standing and above, or departmental approval.

CCPA 2327 - Communication Theory
Credits: 3
Introduces the foundational concepts, theories, and approaches to the study and practice of human communication. Includes a historical overview and discussions of contemporary ethical questions. Prerequisite: Sophomore standing and above, or departmental permission.

CCPA 2328 - Communication Ethics
Credits: 3
Through readings, case studies, and the application of philosophical approaches to ethics, students examine the ethical challenges of strategic communication, explore the historic development of the field, and develop their own personal code of ethics to guide them through the ethical dilemmas they will encounter in the working world.

CCPA 2375 - Communication Research and Data Analytics
Credits: 3
Students learn how to conduct professional research utilizing primary and secondary data, statistics, and analytic software. Prerequisites: C or better in CCPA 2310 (or CCPA 3300) and CCPA 2327; and STAT 2331 (or ITOM 2305).

CCPA 3101 - SMU Pre-Law Scholars Seminar
Credits: 1
Introduces various legal topics, including an overview of legal subjects and careers in law. Provides information relating to the Dedman School of Law admissions process. Restricted to SMU Pre-Law Scholars who have completed their first two full-time academic terms.

CCPA 3300 - Free Speech and the First Amendment
Credits: 3
Examines the philosophy, cases, and issues relevant to the First Amendment right to free expression, with a focus on internal security, obscenity, pornography, slander, and the regulation of communication. Also, the foundations of legal argumentation. Prerequisite: Sophomore standing and above, or law and legal reasoning minor; or departmental permission.

CCPA 3310 - Crisis Management
Credits: 3
Examines different strategies and tactics organizations use before, during, and after a crisis to respond to internal and external audiences. Includes the role of emerging media in crisis response. Prerequisites: C or better in CCPA 2327, CCPA 2375, CCPA 3300, and CCPA 3350; enrollment in the B.A. in public relations and strategic communication program.

CCPA 3320 - Culture, Capitalism, Communication, and You: Mabel Dodge Luhan and the Life Design Experience
Credits: 3
Follows the early 20th century cultural path of wealthy art patron Mabel Dodge Luhan who attracted and created a sense of place for world-famous creatives in Taos, New Mexico. Includes completion of a life design project to define one's place in the world, drawing on field trips and fundamentals of political economy, culture, and communication.

CCPA 3321 - Communication in Global Context
Credits: 3
Provides an international political economy perspective to the study and practice of corporate communication and public affairs, including the challenges and influence of social/cultural, economic, and political forces. Prerequisites: C or better in CCPA 2310 (or CCPA 3300) and CCPA 2327; and STAT 2331 (or ITOM 2305) or instructor consent.

CCPA 3327 - Argumentation and Advocacy
Credits: 3
Explores concepts characterizing rational discourse with a concern for examining validity and fallacy. Students consider traditional and contemporary models for analyzing argument, including an examination of the philosophy of argument and practical inquiry into the uses of debates on contemporary social issues. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs, minor in corporate communication and public affairs, or minor in law and legal reasoning program.

CCPA 3328 - Political Persuasion
Credits: 3
Assesses techniques of persuasion and personal influence through the force of ethos that resides in the personality and reputation of the speaker. Develops skills through case analysis, examples, and exercises to develop awareness of the power, ethics, and effectiveness of persuasion.

CCPA 3335 - Principles of Digital Communication and Social Media
Credits: 3
Addresses the fundamentals, strengths, and weaknesses of each significant social media channel. Includes blog writing, statistics, search engine optimization, and plan writing for a client. Prerequisite: Restricted to corporate communication and public affairs majors and minors and public relations and strategic communication majors.

CCPA 3341 - Ethnicity, Culture, and Gender: Introduction to Critical Studies in Communication
Credits: 3
Explores the impact of culture on the understanding and practice of human communication in interpersonal, organizational, and mass media contexts. Strong emphasis is placed on the role of globalization, race, and socioeconomic dynamics as impediments and conduits of cross-cultural collaboration and interaction. Prerequisites: Sophomore standing and above.

CCPA 3342 - Race and Identity Construction in Global Contexts
Credits: 3
Explores what impact communication practices in organizational, interpersonal, and mass media contexts have on the construction of ethnicity, gender, and sexuality in U.S. and postcolonial settings.

CCPA 3345 - Persuasion Theory and Practice
Credits: 3
Surveys major theories that explain how to influence attitudes and behaviors. Applications to persuasion within a variety of contexts, including relationships, organizations, legal campaigns, and the mass culture. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs, minor in corporate communication and public affairs, or minor in law and legal reasoning program.

CCPA 3347 - Principles of Political Communication
Credits: 3
Examines messages, media, and speakers in campaigns, institutions, and movements. Topics include theory and research, strategies, and the rhetorical influence of mass media, advertising, debates, news management, polling, and the use of emerging technologies in electoral politics and governance. Prerequisites: Restricted to corporate communication and public affairs and public relations and strategic communication majors, or corporate communication and public affairs minors.

CCPA 3350 - Integrated Marketing Communication
Credits: 3
Explores the concept of coordinating the media mix within a communication campaign to create maximum clarity and impact. Covers the ways that a firm or brand communicates with its publics. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, and CCPA 2375; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 3355 - Principles of Public Relations
Credits: 3
Introduces the basic theories, concepts, and approaches to public relations in a business context. Includes a historical overview as well as the professional and ethical demands on practitioners. Prerequisites: C or better in CCPA 2310 (or CCPA 3300) and CCPA 2327; and STAT 2331 (or ITOM 2305); or a minor in arts entrepreneurship.

CCPA 3360 - Business and Professional Communication
Credits: 3
Emphasizes the role that communication plays in recruiting and selecting project team members, motivating employees, and making a project team productive. Prerequisites: C or better in CCPA 2310 and CCPA 2327; and STAT 2331 (or ITOM 2305); or a minor in arts management.

CCPA 3365 - Principles of Organizational Communication
Credits: 3
Explores the role of communication in key organizational processes in corporate and nonprofit settings. Students examine the multiple approaches to organizing and their implications for human communication. Prerequisites: Restricted to corporate communication and public affairs and public relations and strategic communication majors, or corporate communication and public affairs or arts management minors.

CCPA 3368 - Group and Team Communication and Leadership
Credits: 3
Focuses on theories and practices that shape work groups and teams, with emphasis on group discourse in real-life contexts such as group structure/culture, project and conflict management, leadership, decision-making, technology, and meeting facilitation. Prerequisites: Restricted to corporate communication and public affairs majors or minors or arts entrepreneurship minors.

CCPA 3370 - Principles of Social Innovation: Creating World Changers
Credits: 3
Encourages students to think dynamically about social action and their role as global citizens. Course projects and exercises provide a unique opportunity for idea generation and development of innovative plans to address social problems. Prerequisites: Restricted to corporate communication and public affairs majors and minors and arts management and arts entrepreneurship minors.

CCPA 3380 - Principles of Nonprofit Organizing
Credits: 3
Explores the discourses and practices necessary to move beyond an idea toward development of a sustainable socially innovative or nonprofit endeavor. Includes board development and governance, strategic planning and

budgeting, branding and communication strategy, and staff and/or volunteer recruitment and development. Open to all majors.

CCPA 3382 - Advanced Writing for Public Relations
Credits: 3
Provides experience in researching, strategizing, developing, and writing a variety of public relations materials for an array of audiences and objectives. Prerequisites: C or better in CCPA 2308, CCPA 2327, CCPA 2375, CCPA 3300, and CCPA 3355; restricted to public relations and strategic communication majors.

CCPA 3387 - Donor Communication
Credits: 3
Examines the financial communication practices necessary to fund organizations for social good. Explores traditional donor and development models, mission-related financing, and impact investing. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 3390 - Applied Organizational Communication
Credits: 3
Introduces the theories, ethics, and methods of creating and measuring communication to employees and work groups. Topics include employee campaigns, communication with unionized work groups, and use of social media for employee and leadership interaction and collaboration. Students explore how employee discourse can shape perceptions of organizational culture and trust, employee retention and satisfaction, and external branding. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 3392 - Applied Qualitative Research for Organizations
Credits: 3
Explores a variety of organizational settings to provide hands-on experience with qualitative research methodologies. Prerequisites: Restricted to corporate communication and public affairs majors and minors with a C or better in CCPA 2375 or instructor consent.

CCPA 3393 - Politics and the Public Sphere
Credits: 3
Uses classical and modern texts to explore how theories of law, politics, and power influence elections and governments. Explores foundational democratic questions about rights, freedom and equality, individual and common goods, privacy and personhood, free speech and democracy, intellectual property, and efficient markets. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 3395 - Public Opinion, the Press, and Public Policy
Credits: 3
Examines the interdependent relationships among media coverage, public opinion, and public policy, including the influence of press coverage on electoral and policymaking processes in which public voice is presumed to affect democratic outcomes. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 4025 - Organizational Internship
Credits: 0
Students in approved positions gain career-related experience and establish professional contacts. Offered as pass/fail only. Prerequisites: 90 or more credit hours of coursework, 2.750 overall GPA, 3.000 GPA in CCPA coursework, permission of faculty adviser, and enrollment in the B.A. in corporate communication and public affairs or B.A. in public relations and strategic communication program.

CCPA 4125 - Public Relations in Local Contexts
Credits: 1
Provides 50 hours of experience working with public relations professionals part-time during the fall, summer, or spring terms. Offered as pass/fail only. Prerequisites: 90 or more credit hours of coursework, 2.750 overall GPA,

3.000 GPA in CCPA coursework, permission of faculty adviser, and C or better in CCPA 3382. Restricted to public relations and strategic communication majors only.

CCPA 4130 - Professional Seminar
Credits: 1
Prepares students to meet the expectations and demands of working as a public relations professional in various organizational contexts. Topics include career development, interviewing, and résumé writing skills. Pass/fail only. Prerequisites: C or better in CCPA 3355; junior standing or above. Restricted to public relations and strategic communication majors.

CCPA 4198 - CCPA Fellow: Internship
Credits: 1
Practicum for advanced student selected to serve as communication coordinator for the Division of Corporate Communication and Public Affairs whose workload requires a minimum of 50 contact hours within one term. Prerequisites: Junior or senior standing and approval of department.

CCPA 4225 - Public Relations in Local Context
Credits: 2
Provides 100 hours of experience working with public relations professionals part time during the fall, summer, or spring terms. Offered as pass/fail only. Prerequisites: Restricted to public relations and strategic communication majors with 90 or more credit hours of coursework, 2.750 overall GPA, 3.000 GPA in CCPA coursework, C or better in CCPA 3382, and permission of faculty adviser.

CCPA 4298 - CCPA Fellow: Internship
Credits: 2
Practicum for advanced student selected to serve as communication coordinator for the Division of Corporate Communication and Public Affairs whose workload requires a minimum of 100 contact hours within one term. Prerequisites: Junior or senior standing and approval of department.

CCPA 4300 - Seminar in Political Communication
Credits: 3
Advanced study of the role of communication in a public affairs context. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 4302 - Washington Term Studies
Credits: 3
Offers an opportunity to study and work in Washington, D.C., as part of American University's Washington semester. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, CCPA 2375; junior standing; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs.

CCPA 4303 - Washington Term Studies
Credits: 3
Offers an opportunity to study and work in Washington, D.C., as part of American University's Washington semester. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, CCPA 2375; junior standing; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs.

CCPA 4304 - Washington Term Studies
Credits: 3
Offers an opportunity to study and work in Washington, D.C., as part of American University's Washington semester. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to

newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, CCPA 2375; junior standing; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs.

CCPA 4305 - Washington Term Directed Studies
Credits: 3
An independent study with the goal of producing original research while students are enrolled in American University's Washington semester. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, CCPA 2375; junior standing; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs.

CCPA 4310 - History and Philosophy of Free Speech
Credits: 3
Examines the philosophical debates on the existence, extent, and effect of free speech on society, including the rights of the individual versus the rights of the collective body politic.

CCPA 4312 - Seminar in Social Innovation and Nonprofit Engagement
Credits: 3
Advanced study of the role of communication in a social innovation and nonprofit context. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 4320 - Public Relations in Local Context
Credits: 3
Provides 150 hours of experience working with public relations professionals part time during the fall, summer, or spring terms. Offered as pass/fail only. Prerequisites: 90 or more credit hours of coursework, 2.750 overall GPA, 3.000 GPA in CCPA coursework, permission of faculty adviser, and C or better in CCPA 3382. Restricted to public relations and strategic communication majors.

CCPA 4323 - Forensics Workshop
Credits: 3
Explores pedagogical methods, theories, and techniques of competitive debate including individual events, tournament administration, professional responsibilities of the forensic educator, and practical experience in forensics and debate competition. Prerequisite: Approval of instructor.

CCPA 4325 - Organizations in Local Context
Credits: 3
Students in approved positions gain 150 hours of career-related experience and establish professional contacts. Pass/fail only. Prerequisites: 90 or more credit hours of coursework, 2.750 overall GPA, 3.000 GPA in CCPA coursework, permission of faculty adviser. Restricted to corporate communication and public affairs majors.

CCPA 4326 - Washington Term Internship
Credits: 3
Offered in conjunction with courses taken in Washington, D.C. Provides experience working in public affairs in the nation's capital, supervised by a faculty member there. Prerequisites: C or better in CCPA 2308 (or CCPA 3360 or DISC 1313 topic: introduction to newswriting), CCPA 2310 (or CCPA 3300), CCPA 2327, CCPA 2375; junior standing; enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs.

CCPA 4335 - Advanced Digital Communication
Credits: 3
Experience in content marketing, search engine optimization, blog writing, live blogging, and client projects that delve into existing and emerging platforms. In-depth focus on management expectations, return on investment, Web analytics, and keyword discovery. Prerequisites: C or better in CCPA 3335. Restricted to corporate communication

and public affairs majors and minors, public relations and strategic communication majors and arts entrepreneurship minors.

CCPA 4338 - Creative Production for Communicators
Credits: 3
Introduces basic principles of graphic design and production in tandem with the use of industry-standard hardware and software programs, including the Adobe Creative Suite. Focuses on public relations applications. Prerequisites: Restricted to corporate communication and public affairs majors and minors and public relations and strategic communication majors.

CCPA 4340 - Corporate Finance and Public Relations Strategy
Credits: 3
Provides business literacy, financial and accounting basics, and case study analysis that enables professionals to implement communication strategies that advance business objectives. Prerequisites: C or better in CCPA 2327, CCPA 2375, CCPA 3300, CCPA 3355; enrollment in the B.A. in public relations and strategic communication program.

CCPA 4345 - Seminar in Organizational Communication
Credits: 3
Advanced study of the role of communication in an organizational context. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 4375 - Honors Thesis in Communication
Credits: 3
Provides advanced students with the opportunity to do original research on a topic related to communication. Students learn how to write research questions, conduct a literature review, engage in qualitative or quantitative methodologies, and present findings. Prerequisites: Honors standing; enrollment in the B.A. in corporate communication and public affairs or B.A. in public relations and strategic communication program.

CCPA 4376 - Social Entrepreneurship: Creating a Movement and Innovating Through the Social Good
Credits: 3
Explores how to use one's talents, passions, and interests to address world problems with innovative solutions that result in movements and cultural change. Focuses on building a business that realizes success and aids those in need. Prerequisites: Restricted to corporate communication and public affairs majors and minors and arts entrepreneurship minors.

CCPA 4378 - Social Entrepreneurship and Stewardship in the Faith-Based Organization
Credits: 3
Focuses on the unique nonprofit strategic communication, management, and funding demands of the 21st-century church and faith-based organizational leader. Designed for students interested in creating or serving in innovative, responsive, and fiscally sound religious-based contexts. Topics include strategic planning, branding, power and influence, staff and volunteer management, and stewardship in donor relations. Prerequisites: Restricted to corporate communication and public affairs majors and minors.

CCPA 4380 - Social Entrepreneurship, Capitalism, and the Wesleyan Tradition
Credits: 3
Explores the extraordinary contributions of John Wesley, William Wilberforce, and the Clapham Sect to contemporary understandings of money, philanthropy, and capitalism. Examines practices of the Clapham Sect in Victorian England and explores current developments in social innovation, entrepreneurship, and the challenge of funding nontraditional community-based ministries in the 21st century.

CCPA 4385 - Communication, Technology, and Globalization
Credits: 3
Examines how various communication technologies are used within a strategic communication context and

addresses historical, ethical, and legal issues surrounding the use of these technologies. Prerequisites: Restricted to corporate communication and public affairs majors and minors and public relations and strategic communication majors.

CCPA 4386 - Financial Communication
Credits: 3
Familiarizes students with terms, principles, theories, and practices in financial communications. Examines techniques used in investor relations and considers legal and ethical responsibilities. Prerequisites: Restricted to corporate communication and public affairs majors and minors and public relations and strategic communication majors.

CCPA 4390 - Globalization, Economics, and Communication
Credits: 3
The globalization of economic and communicative activity entails a new type of organizing structure as well as an understanding of self and one's connection (interdependence) to the global marketplace. Examines the rise of globalization and the social, political, and economic activity that has significance for every individual and community across the globe.

CCPA 4392 - Mustang Consulting I: Introduction to Communication Consulting
Credits: 3
Provides a hands-on opportunity to learn and implement the theories and skills necessary to engage in the task of communication consulting. Unlike other models of consulting, the art of communication consultation emphasizes the centrality of organizational communication as a means of assisting clients in addressing their organizational concerns and opportunities. Covers applying communication theory and research to the practice of communication consultation; distinguishing the difference between academic research and communication consulting; and proposing, planning, and implementing a consulting project. Prerequisite: Approval of instructor.

CCPA 4393 - Mustang Consulting II: Advanced Communication Consulting
Credits: 3
This advanced communication consulting course provides the opportunity for students to manage their own communication consulting clients under the supervision of the faculty principal. Students are responsible for all client contact, presentations, and resolutions and are required to implement an entire strategic communication solution on behalf of the client, from planning through evaluation. Prerequisite: Approval of instructor.

CCPA 4394 - Mustang Consulting III: Leadership Practicum
Credits: 3
This strategic communication management/consulting course is for advanced students to develop agency team and project management skills by serving as team leaders for regional and local clients. Prerequisites: Junior or senior standing and approval of instructor.

CCPA 4395 - Boulevard Consulting Practicum
Credits: 3
In this capstone course, students work in teams, conduct original research, and develop and present a comprehensive public relations campaign for an actual client. Prerequisites: C or better in CCPA 3382; senior standing. Restricted to public relations and strategic communication majors.

CCPA 4396 - Mustang Consulting Internship
Credits: 3
Practicum for advanced students whose client workload requires a minimum of 150 contact hours within one term. Prerequisites: Junior or senior standing and approval of instructor.

CCPA 4397 - Fashion Industry Public Relations Strategy
Credits: 3
Focuses on application of public relations principles and practices standard to the fashion industry. Uses case study

format to cover public relations planning, development of written materials, and demonstration of effective business communication strategies. Prerequisites: C or better in CCPA 2308 (or JOUR 2312) and CCPA 3355 and enrollment in the B.A. in public relations and strategic communication and B.A. in fashion media.

CCPA 4398 - CCPA Fellow: Internship
Credits: 3
Practicum for advanced student selected to serve as communication coordinator for the Division of Corporate Communication and Public Affairs whose workload requires a minimum of 150 contact hours within one term. Prerequisites: Junior or senior standing and approval of department.

CCPA 5110 - Directed Study
Credits: 1
A close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Junior or senior standing; permission of instructor and division chair; and enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5210 - Directed Study
Credits: 2
A close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Junior or senior standing; permission of instructor and division chair; and enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5300 - Special Topics in Corporate Communication and Public Affairs
Credits: 3
Focuses on the role of communication in contemporary study or practice. Topics vary by instructor.

CCPA 5301 - Topics in Communications
Credits: 3
Focuses on the role of communication in contemporary study or practice. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5302 - Topics in Communications
Credits: 3
Focuses on the role of communication in contemporary study or practice. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5303 - Topics in Social Innovation and Nonprofit Engagement
Credits: 3
Focuses on the role of communication in the contemporary study or practice of social innovation and social entrepreneurship. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs or minor in corporate communication and public affairs program.

CCPA 5304 - Topics in Organizational Communication
Credits: 3
Focuses on the role of communication in the contemporary study or practice of organizations. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs or minor in corporate communication and public affairs program.

CCPA 5305 - Topics in Political Communication
Credits: 3
Focuses on the role of communication in the contemporary study or practice of politics. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in corporate communication and public affairs or minor in corporate communication and public affairs program.

CCPA 5306 - Topics in Public Relations and Strategic Communication
Credits: 3
Focuses on the role of communication in the contemporary study or practice of public relations. Topics vary by instructor. Prerequisite: Enrollment in the B.A. in public relations and strategic communication program.

CCPA 5310 - Directed Study
Credits: 3
A close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Junior or senior standing; permission of instructor and division chair; and enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5315 - Directed Study in Engaged Learning
Credits: 3
The student must secure written permission from the supervising instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Permission of instructor and division chair and enrollment in the B.A. in corporate communication and public affairs, B.A.in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5320 - Directed Study in Big Ideas
Credits: 3
The student must secure written permission from the supervising instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Permission of instructor and division chair and enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

CCPA 5325 - Directed Study in Caswell Fellowship
Credits: 3
The student must secure written permission from the supervising instructor and return a completed directed studies form to the Division of Corporate Communication and Public Affairs before the drop/add date in the term during which the study is to be undertaken. Prerequisites: Permission of instructor and division chair and enrollment in the B.A. in corporate communication and public affairs, B.A. in public relations and strategic communication, or minor in corporate communication and public affairs program.

Creative Computing

Professor Ira Greenberg, **Center Director**

Professor: Ira Greenberg
Associate Professor: Jo Guldi
Associate Professor of Practice: Mark Leon
Assistant Professors: Courtney Brown, Melanie Clemmons
Visiting Lecturers: Jessie Zarazaga
Adjunct Instructors: Michael Corris, David G. Smith

General Information

Creative computing is a highly interdisciplinary program offering a Bachelor of Arts and a minor that combine theory and methodology from computer science and engineering with aesthetic principles and creative practice from the arts. The program is rigorous in its interdisciplinary integration, requiring students to pursue core coursework in both the Lyle School of Engineering and the Meadows School of the Arts. In addition, the program requires a capstone project and either a minor concentration or a second major. Study abroad is also highly recommended.

The major in creative computing crosses traditional disciplinary boundaries in response to technological innovation, contemporary arts practices and demands of the global marketplace. An underlying principle at the philosophical core of the major is the integration of creative and analytical study and practice – championing an integrated "whole brain" approach. The major in creative computing enables students to consider problems from many angles and conceptual frameworks, integrating widely disparate approaches and practices.

The program's breadth enables students to target many different segments and professional opportunities within the digital economy, including software engineering, Web design, interactive design/development, mobile application development, 3-D modeling and animation, scientific visualization, and social media. It is anticipated that opportunities will continue to increase as the application of computation and digital processes continues to proliferate across all segments of the global economy. Graduates of the program will

- Be fully literate in at least one major programming language (Java, C/C++, etc.) and a secondary scripting language (JavaScript, Python, etc.), and will be capable of developing a fully functional software project from concept through deployment, including platform integration, installation, debugging and maintenance.
- Have a conceptual, technical and aesthetic direction informing their creative development and research.
- Be capable of bridging multiple disciplines and synthesizing original technology-driven solutions.
- Be equally comfortable and competent applying creative and computational methods, approaches and processes in solving problems.
- Be capable of working across multiple segments of the digital economy in roles such as interactive designers and/or developers, creative technologists, software engineers, project managers, fine artists and entrepreneurs.

Creative Computing, B.A.

Admission to the program is competitive. A minimum overall GPA of 3.000 is required, as well as at least a 3.500 GPA in courses listed under Computing Fundamentals in the table below. Students are admitted to the major through consultation with the program director.

The major requires a final capstone project, where students, working with a faculty adviser, develop an independent project in creative computing. Projects may include an art installation, performance, original software (tool, library or application) or a scholarly article. It is expected that students will present their projects in a public forum.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Computing Fundamentals (9 Credit Hours)

- CRCP 1310 - Creative Coding I
  or
- ASIM 1310 - Creative Coding I
  or
- CS 1341 - Principles of Computer Science

- CRCP 3305 - Creative Computing II
  or
- ASIM 3305 - Creative Computing II
  or
- CS 1342 - Programming Concepts

- CRCP 5320/ASIM 5320 - Aesthetics and Computation
  or
- CS 2341 - Data Structures

Creative Fundamentals (9 Credit Hours)

Any 1000- or 2000-level courses in the Meadows School of the Arts may be substituted for up to 6 hours of the courses listed below, with adviser approval.

Three from the following:

- ASCE 1300 - Introduction to Ceramics
- ASDR 1300 - Introduction to Drawing
- ASPH 1300 - The Basics of Photography
- ASPR 3300 - Printmaking Workshop
- ASPT 1300 - Introduction to Painting
- ASSC 1300 - Introduction to Sculpture
- ENGL 2390 - Introduction to Creative Writing
- FILM 1301 - Art of Film and Media
- FILM 1302 - Contemporary Media Industries

Creative Computing (21 Credit Hours)

Seven from the following:

- ASIM 1300 - Introduction to Digital/Hybrid Media
- ASIM 1330 - Intermediate Digital/Hybrid Media
- ASIM 1340 - Computational Sculpture
- ASPH 3390 - Experimental Camera
- ASIM 3305 - Creative Computing II
- ASIM 3310 - Digital/Hybrid Media Workshop (topic: international digital atelier)
- ASIM 3320 - Advanced Digital/Hybrid Media
- ASIM 3350 - Digitally Augmented Performance and Installation
- ASIM 5302 - Digital/Hybrid Media Directed Studies
- ASPH 3304 - Digital Tools
- CEE 5373 - Prestressed Concrete
- CRCP 1330 - Sound and Code

- CRCP 1350 - The Art of 3-D Modeling and Animation
  or
- CS 5360 - Introduction to 3-D Animation

- CRCP 2310 - Nature and Code

- CRCP 2330 - Nand to Tetris: Elements of Computing Systems
- CRCP 3310 - Data: Meaning, Narrative, and Discovery
- CRCP 3320 - Postmodern Software Design

- CRCP 3382 - Introduction to Graphics Programming
  or
- CS 5382 - Computer Graphics

- CS 3345 - Graphical User Interface Design and Implementation
- ECE 1301 - Modern Electronic Technology
- ECE 5390 - Special Topics
- FILM 1304 - Production 1
- FILM 3384 - Sound 1
- FILM 4304 - Project Development
- FILM 4308 - Postproduction Visual Fx
- MSA 3310 - Fundamentals of Audio and Sound
- MSA 3330 - Special Topics (topic: creative visualization or synthesizing nature)
- MUTH 4310 - Introduction to Electro-Acoustic Music
- MUTH 4311 - Advanced Topics in Music Technology
- PHYS 1320 - Musical Acoustics
- PHYS 3320 - Physics of Music
- PHYS 3340 - Computational Physics
- THEA 2275 - Technical Theatre Laboratory
- THEA 2333 - Technical Drawing for the Theatre
- THEA 3379 - Computer-Assisted Design I
- THEA 3380 - Computer-Assisted Design II

Math, Sciences and Engineering (9 Credit Hours)

Any courses within the math, sciences or engineering disciplines may be substituted for up to 6 credit hours of the courses listed below, with adviser approval.

One from the following:

- MATH 3304 - Introduction to Linear Algebra
- MATH 3311 - Introduction to Proof and Analysis

At least 6 credit hours from the following:

- ANTH 2415 - Human Evolution: Biological and Social Beginnings of Humankind
- ANTH 2463 - The Science of Our Past: An Introduction to Archaeology

- BIOL 1301 - Introductory Biology
- BIOL 1101 - Introductory Biology Lab
  (or BIOL 1401 prior to Fall 2017)

- BIOL 1302 - Introductory Biology
- BIOL 1102 - Introductory Biology Lab
  (or BIOL 1402 prior to Fall 2017)

- BIOL 1300 - Introductory Biology
- BIOL 1305 - The Natural Environment
- BIOL 1308 - Plant Biology
- CHEM 1301 - Chemistry for Liberal Arts
- CHEM 1303 - General Chemistry
- CHEM 1304 - General Chemistry

- CS 2240 - Assembly Language Programming and Machine Organization
- CS 2353 - Discrete Computational Structures
- GEOL 1301 - Earth Systems
- GEOL 1305 - Oceanography
- GEOL 1307 - The Solar System
- GEOL 1313 - Earthquakes and Volcanoes
- PHYS 1303 - Introductory Mechanics
- PHYS 1304 - Introductory Electricity and Magnetism
- PHYS 3305 - Introduction to Modern Physics

Advanced Engineering (9 Credit Hours)

- Any Lyle applied technology courses at the 3000 level or above, with adviser approval.

Advanced Arts (9 Credit Hours)

- Any Meadows studio or performance arts courses at the 3000 level or above, with adviser approval.

Theory (3 Credit Hours)

One from the following:

- ARHS 3369 - Contemporary Art: 1965-Present
- CS 2240 - Assembly Language Programming and Machine Organization
- CS 3353 - Fundamentals of Algorithms
- MATH 3304 - Introduction to Linear Algebra
- MATH 3311 - Introduction to Proof and Analysis
- PHIL 1301 - Elementary Logic
- PHIL 3363 - Aesthetic Experience and Judgment
- PSYC 3310 - Memory and Cognition
- SOCI 3345 - Construction of Social Identities in the Media

Capstone (3 Credit Hours)

- CRCP 5301 - Creative Computing Major Capstone

Minor or Second Major and Free Electives

Hours vary as needed to meet University residency and degree requirements.

Total for the Major Only: 72 Credit Hours

Creative Computing Minor

The minor in creative computing is highly interdisciplinary, championing a "whole brain" approach. Combining study, creative practice and research, students explore computing as a universal creative medium, integrating aesthetic principles and practices from the arts with analytical theories and processes from computer science and engineering.

Requirements for the Minor

Core Course Requirements (9 Credit Hours)

- CRCP 1310 - Creative Coding I
  or
- ASIM 1310 - Creative Coding I
  or
- CS 1341 - Principles of Computer Science

- CRCP 3305 - Creative Computing II
  or

- ASIM 3305 - Creative Computing II
  or
- CS 1342 - Programming Concepts

- CRCP 5320/ASIM 5320 - Aesthetics and Computation
  or
- CS 2341 - Data Structures

Creative Computation (6 Credit Hours)

At least 6 hours from the following, according to track choice.

Computational Art Track

Two from the following:

- ASIM 1330 - Intermediate Digital/Hybrid Media
- ASIM 1340 - Computational Sculpture
- ASIM 3310 - Digital/Hybrid Media Workshop
- ASIM 3320 - Advanced Digital/Hybrid Media
- ASIM 3350 - Digitally Augmented Performance and Installation
- ASIM 5302 - Digital/Hybrid Media Directed Studies
- CRCP 3382/ASIM 3382 - Introduction to Graphics Programming

Graphics and Gaming Track

Two from the following:

- CRCP 1330 - Sound and Code
- CRCP 3382/ASIM 3382 - Introduction to Graphics Programming
- CS 5360 - Introduction to 3-D Animation
- CS 5382 - Computer Graphics
- MATH 3304 - Introduction to Linear Algebra

Music Track

Two from the following:

- CRCP 1330 - Sound and Code
- MUTH 4310 - Introduction to Electro-Acoustic Music
- MUTH 4311 - Advanced Topics in Music Technology
- PHYS 1320 - Musical Acoustics
- PHYS 3340 - Computational Physics

Creative Coding Track

Two from the following:

- CRCP 2310 - Nature and Code
- CRCP 3310 - Data: Meaning, Narrative, and Discovery
- CRCP 3320 - Postmodern Software Design
- CRCP 3382/ASIM 3382 - Introduction to Graphics Programming
- ECE 5378 - Mobile Phone Embedded Design

Digital Humanities

Two from the following:

- ANTH 4388 - Geospatial Archaeology
- HIST 1325 - Doing Digital History
- HIST 3368 - Digital History with Data Science
- HIST 3380 - Special Topics in Digital History

Customized Track
Two chosen in consultation with adviser.

Capstone Project (3 Credit Hours)
- CRCP 5301 - Creative Computing Major Capstone

Total: 18 Credit Hours

Creative Computing Courses

CRCP 1310 - Creative Coding I
Credits: 3
Exploring computation as a powerful generative medium, students learn the fundamentals of coding and computational thinking, including an introduction to object-oriented programming. Hands-on topics may include algorithmic drawing, procedural imaging, 2-D and 3-D animation, visualization, interactivity, computational music, and gaming.

CRCP 1320 - Imaging the City as Personal Narrative
Credits: 3
Taught on-site in a major world city, this course introduces students to concepts in visual data collection and documentation, as a method of developing their personal vision and voice. Evaluations include individual and group critiques, with an emphasis on the analysis of formal properties in the creative work, along with the students' generative tendencies.

CRCP 1330 - Sound and Code
Credits: 3
Explores computation as a powerful creative medium. Students learn the fundamentals of aural programming in the context of creative development. Course examples include algorithmic music, sound synthesis, waveform analysis, sound effects, sound detection, and MIDI. Laptop computer required.

CRCP 1350 - The Art of 3-D Modeling and Animation
Credits: 3
Students explore 3-D modeling and animation using Maya, the industry standard 3-D software package. Topics include virtual sculpting, texture maps, transformations, procedural shaders, virtual lights and cameras, timeline-based animation, and special effects. Laptop computer required.

CRCP 2310 - Nature and Code
Credits: 3
Students explore patterns, systems, and underlying emergent structures found in nature through code experiments, simulations, and sketches. Course topics include swarming, growth, motility, chaos, complexity, predation, cellular automata, L-systems, and fractals. Prerequisite: ASIM 3305 or CS 1342, or instructor permission. Laptop computer required.

CRCP 2330 - Nand to Tetris: Elements of Computing Systems
Credits: 3
Students build an entire modern computer from the ground up to master the creative tools used within creative computation. Includes using simulated hardware and constructing an assembler, a virtual machine, a compiler, an operating system, and a program that runs on the project computer. Covers computing history, technical layers of abstraction, creative programming, and integration of ideas in creative computing. Prerequisite: CS 1342 or ASIM 3305.

CRCP 2340 - Functional Programming for Creative Coding
Credits: 3
Foundations of functional programming with musical applications. Uses the Haskell programming language and Euterpea library for musical representation to explore functional paradigms through the creation of algorithmic

compositions and other musical projects. Prerequisites: CS 1341, ASIM 1310, CRCP 1310, or prior programming experience.

CRCP 2350 - Introduction to Creative Game Development
Credits: 3
Using Unity as a framework for exploration of elements of game design, including lighting, terrain, handling user input, and basic physics. Students will also learn scripting to customize game behavior using the C# programming language. Areas of application covered will include games for art, research, training, and entertainment. Prerequisites: CS 1341, ASIM 1310, CRCP 1310, or prior programming experience.

CRCP 3143 - Interactive Hybrid Performance
Credits: 1
A multidisciplinary ensemble open to any students exploring ways of collaborating and working with new technology in performance, making, and improvisation. Encourages sound/music, technology, DIY maker, dance, and visual practitioners to find ways of working together. No previous experience required.

CRCP 3305 - Creative Computing II
Credits: 3
Introduces advanced creative coding principles using the Java programming language. Students learn how to design software systems for real-time performance and interactive applications. Advanced objected-oriented principles and introductory data structures are introduced. Prerequisites: ASIM 1310, CRCP 1310, CS 1341, or permission of instructor.

CRCP 3310 - Data: Meaning, Narrative, and Discovery
Credits: 3
Students apply programming to obtain, transform, and automate data analysis to extract meaning from large sets of data. From basic data streams to social media APIs, relational databases to unstructured data, bits to big data, and from statistics to data mining, students apply technical concepts to datasets from the arts, humanities, sciences, and other disciplines. Prerequisite: CS 1342 or ASIM 3305.

CRCP 3315 - Creative Computing III
Credits: 3
Introduces C++ from a "creative coding" perspective and further explores advanced concepts in object-oriented programming and software engineering, including popular design patterns. Course examples, programming exercises, assignments, and exams incorporate creative computing concepts and best practices. Prerequisites: CRCP 1310 and CRCP 3305 (or equivalents).

CRCP 3320 - Postmodern Software Design
Credits: 3
Students learn how to build integrated mobile and Web applications using postmodern tools, platforms, and practices. They also obtain a timeless understanding of application architecture, design patterns, and craftsmanship, applying them with powerful tools and workflows to ensure successful software. Covers Web development, Web applications, cloud-based architecture, user experience design, project management, mobile device programming, and software craftsmanship in creative computing. Prerequisite: CRCP 3310 or instructor consent. Restricted to creative computation majors and/or Lyle School of Engineering majors.

CRCP 3330 - Artificial Intelligence and Creative Composition
Credits: 3
Creative composition as a task represents an interesting problem for artificial intelligence: it demands not only emulation of human decision-making, but also the addition of novelty or creativity features that present numerous computational and philosophical problems in the area of computing. The course deals with artificial intelligence algorithms for analyzing and generating original compositions. Topics surveyed span multiple areas of cutting-edge artificial intelligence research applied to the creative domain. Prerequisite: Permission of instructor or ASIM 3305, CRCP 3305, or CS 1342.

CRCP 3343 - Interactive Installation and Performance
Credits: 3
Explores contemporary hybrid performance augmented with live digital media. Students work with the object-based programming tool Max/MSP Jitter to develop responsive systems, instruments, and custom tools for use in a performance context. Students explore hybrid performance practice incorporating dance, music, visual art, and creative computation. Prerequisite: CS 1341, CRCP 1310, or ASIM 1310.

CRCP 3360 - Web Portfolio Development
Credits: 3
Introduces students to creative development across the entire Web Stack, from HTML, CSS, and JavaScript to server-side solutions with basic database implementation. Popular libraries such as jQuery, p5.js, and d3.js are also introduced. As a course outcome, students design, develop, and publish a portfolio site of their creative work.

CRCP 3382 - Introduction to Graphics Programming
Credits: 3
Using modern C++ and OpenGL, students learn the basics of graphics programming, including hardware rendering using GLSL. Projects developed in the course include 2D imaging, vector graphics, animations, and games. Prerequisite: CRCP 3305, CS 1342, or ASIM 3305.

CRCP 4391 - Special Topics
Credits: 3
Designed to cover topics that may have temporary or limited interest. Prerequisite: CS 1342 or instructor approval.

CRCP 5301 - Creative Computing Major Capstone
Credits: 3
In consultation with a faculty adviser, students propose, design, and implement an independent creative computing project. Projects may include performance, exhibition, and hardware and/or software development. Requires completion of a paper summarizing significant project outcomes and results. Restricted to creative computing majors. To be completed in the student's last term of the creative computing major. Prerequisite: Permission of instructor.

CRCP 5320 - Aesthetics and Computation
Credits: 3
Students explore code and computation as primary generative media, developing original works of art, leading to the creation of an online portfolio. Screen based, printed, mobile, Web, physical, and performative applications may be explored. Prerequisite: ASIM 3305, CRCP 3305, or CS 1342.

CRCP 5326 - History and Theory of Creative Computation
Credits: 3
How have computers and information networks been used to create art? What ideas and practices have contributed to the development of creative computing? What does making art using code, algorithms, and the Internet say about the nature of art today? The identity of the artist? How do we assess the quality of the art produced by computers or responsive systems? Students explore the rich history and theory of creative computation, from the earliest experiments in machine art of the 20th century to the most advanced concepts of the present, from Artificial Intelligence to Virtual Reality. Prerequisites: A second-level coding course (CS 1342 or ASIM 3305 or CRCP 3305), or 9 credits in any 3000-level courses designated ARHS, ASAG, ASIM, CRCP, or CS.

CRCP 5330 - Location Based Data & Creative Visualization
Credits: 3
An immersion in imaginative geographies, this course introduces students to the tools and explorative possibilities of GIS (Geographic Information Systems) mapping software. Building on a basic introduction to the technology, the course explores image making and communication through digital mapping, spatial modelling, and the spatial language of data visualization.

CRCP 5350 - Creative Motion Capture
Credits: 3
A project-based course in which students learn to use motion capture technology, including computer vision and working with inertial sensors. Various motion analysis techniques are introduced including digital signal processing and gesture recognition. Students are also introduced to embodied interaction design. Prerequisites: ASIM 3305, CRCP 3305, or CS 1342.

CRCP 5390 - Visualization of Information
Credits: 3
Introduces data visualization and creative coding utilizing the Processing programming language. Explores visual and information design principles, primarily though hands-on programming exercises. Includes assignments and exams that incorporate 2-D and 3-D computer graphics, interactivity, and data input. Covers procedural and object-oriented programming approaches to data visualization and provides an overview of leading-edge data visualization libraries and application program interfaces, including Web-based approaches.

Dance

Associate Professor Christopher Dolder, **Division Chair**

Professor: Myra Woodruff
Associate Professors: Christopher Dolder, Leslie Peck
Assistant Professor: Brandi Coleman
Professor of Practice: Anne Westwick
Visiting Artist in Residence: Mark Burrell
Director of Dance Production: Christopher Ham
Adjunct Lecturers: Christie Bondade, Morgan Palmer
Musicians: Dick Abrahamson, Jamal Mohamed, Martin Morgan, Mina Polevoy, Natalia Sawal, Edward Smith

General Information

The Division of Dance offers a Bachelor of Fine Arts and a minor in dance performance. Students receive professional dance training within the context of a comprehensive liberal arts education. The goal is to develop the disciplined, versatile dance artist through a balanced study of ballet, modern dance and jazz dance techniques, complemented and reinforced by a broad range of theoretical studies and performance opportunities. The program provides an atmosphere in which students are nurtured and stimulated in their quest for artistic achievement, technical mastery and scholarly excellence. Undergraduate majors study dance as a performing art with the intent to become practicing artists. The core of the dance curriculum is designed with this goal in mind. The combination of performance and liberal arts education courses serves to develop the articulate dancer.

The Division of Dance has four dance studios, three of which are located in the Owen Arts Center. Studios are equipped with sprung floors, digital sound and projection systems, grand pianos, ballet barres and mirrors. The Charles S. Sharp Performing Arts Studio doubles as a performing space and is also equipped with a tech booth and a theatrical lighting system. Live accompaniment is provided for all ballet and modern technique classes.

Admission, Audition and Financial Aid

Dance is a dual admit program: in addition to meeting University admission criteria, all first-year and transfer applicants must participate in a performance audition, which is the principal factor in determining eligibility to major or minor in dance. In the performance audition, applicants are observed in a ballet class, modern dance sequences and a jazz dance combination. After this process, selected candidates are asked to perform a prepared solo that is 90 seconds in length. Applicants should bring a brief résumé, a wallet-sized photograph, music for the solo (tablet or smartphone) and appropriate dancewear and footwear (the modern dance portion of audition will be danced barefoot). Campus and regional dance auditions occur between October and March. Auditions are scheduled at www.smu.edu/danceadmission.

Performance

All dance majors are required to perform and choreograph as an integral part of their performance studies. Performance opportunities include concerts featuring masterworks and contemporary works in the genres of ballet, modern and jazz presented on the main stage in the Bob Hope Theatre, concerts featuring student choreography in noontime Brown Bag performances in the Owen Arts Center lobby and mainstage concerts in the Bob Hope Theatre and performances in venues in the Dallas Arts District including the Meadows at the Winspear concerts presented in collaboration with the Meadows Symphony. Other opportunities include special events, outreach programs and interdisciplinary projects within and beyond the Meadows community. All dance students are required to take ballet, modern dance, and jazz dance in their first four terms. In the final four terms, all dance students must take a minimum of one dance techniques class per day.

Dance Performance, B.F.A.

Southern Methodist University is an accredited institutional member of the National Association of Schools of Dance. The program is designed to create the versatile dance artist/scholar who possesses technical prowess and expressive range in the genres of ballet, modern and jazz and the ability to think critically and express their ideas through choreography, verbal expression and well-crafted writing. The degree requires 80 credit hours in dance, of

which a minimum of 47 credit hours are in technique and the remaining 33 credit hours provide students with the opportunity to develop scholarly and creative abilities in dance and related areas of interest.

Curriculum Notes: A student must be enrolled in a minimum of six credit hours of dance in order to be a dance major in good standing and maintain an artistic scholarship. In the first two years, students are required to take two technique classes per day and in the junior and senior years, students are required to take a minimum of one technique class per day. Students are required to attend auditions as designated by the Division and perform in concerts as cast. A minimum of four terms of ensemble credit (DANC 3080) are required; enrollment will be processed by the division after casting is determined for each term. Four terms of dance composition (DANC 3341, DANC 3242, DANC 3243, DANC 4191) are required beginning in the junior year. The Dance curriculum is progressive and requires eight semesters to complete for those coming in to the university as first year students. Transfer students may complete the program in less time depending on the application of transfer credit to the course requirements in both the University Curriculum and the B.F.A. in Dance Performance.

Grade Requirements

Dance majors are expected to apply themselves scholastically and to conscientiously assume artistic and academic responsibilities associated with the degree. Grades lower than C are not acceptable in any required dance course and will necessitate repeat enrollments. Students who do not meet the GPA requirements are placed on probation. To be eligible for the merit scholarship, students are required to maintain a minimum cumulative GPA of 2.700 in dance courses, and must be enrolled in a minimum of six credit hours in dance.

Additional Requirements

Full participation in the program and in division performances is required of every student. Performance studies and production activities in the Division of Dance take precedence over performance opportunities outside of the division. Students must submit a request and be granted permission to participate in any project outside the division prior to committing to the project. Students are expected to adhere to this policy as well as all policies of the division, which are outlined in the Division of Dance Student Handbook.

Evaluation

High standards of discipline and execution are essential for artistic growth, progress and success. Regular class attendance, attendance at auditions for concerts, classroom and theatre etiquette, punctuality and attendance at student meetings are essential. Students meet with individual faculty at midterm to receive a progress report and to establish individual goals. At the close of each term, each student receives a performance evaluation by the collective faculty. Various aspects of a student's work are examined at this evaluation, including technical progress, performance artistry, capacity for and commitment to class work, attitude, academic performance, participation in all aspects of the program, and health and fitness. When standards are not met, a student is advised that significant improvement must take place to remain in the program. Poor critiques may result in probationary measures and/or loss of dance scholarship funding. All dance scholarships are reviewed each term. Further details on the standards and requirements for the B.F.A. in Dance Performance are outlined in the Division of Dance Student Handbook, which is available to dance students online.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Performance Technique (32 Credit Hours)

To be taken during the first 2–3 years of study:

- Ballet Courses: 12 credit hours

- Modern Dance Courses: 12 credit hours
- Jazz Dance Courses: 8 credit hours
- Pointe or Men's Ballet Technique: 2 terms required - to be taken for 0 credit hours as co-requisite to ballet

Advanced Performance Technique (15 Credit Hours)
Must be at the 3000–4000 level of proficiency in at least one major area of performance technique.

Ensemble Performance (0 Credit Hours)
- DANC 3080 - Ensemble Performance (minimum of four terms)

Composition (7 Credit Hours)
- DANC 3341 - Dance Composition I
- DANC 3242 - Dance Composition II
- DANC 3243 - Dance Composition III
- See Dance Capstone

Theoretical and Applied Studies (13 Credit Hours)
- DANC 1030 - Partnering I Laboratory
- DANC 1144 - The Dancer's Toolbox
- DANC 1151 - Dance Production I
- DANC 1152 - Dance Production II
- DANC 1326 - Musical Concepts

- DANC 2160 - Introduction to Pilates
  or
- DANC 2170 - Yoga for Dancers

- DANC 3363 - Kinesiology for Dance
- DANC 3366 - Dance Pedagogy

Historical Studies (6 Credit Hours)
- DANC 4374 - Dance History II: Modernism

- DANC 4373 - Dance History I: Ballet
  or
- DANC 4375 - Dance History III: Jazz History

Dance Electives (6 Credit Hours)
Selected from Dance courses in performance technique, theoretical and applied studies, and directed studies.

Dance Capstone (1 Credit Hour)
Includes final choreographic project.
- DANC 4191 - Dance Capstone

Total for the Major Only: 81 Credit Hours

Dance Performance Minor
The minor in dance performance, which is available to all University students, is designed for those with previous dance training who wish to continue the pursuit of their interests within the context of their liberal arts studies. Admission to the minor is by audition only and acceptance criteria for the minor are the same as those for the major. Minors are assigned a faculty adviser in the Division of Dance and are required to consult with that adviser prior to registering each semester. Dance performance minors do not perform in main stage concerts but are eligible to

audition for student concerts by permission of the chair. Minors are allowed to take only one technique class in any given semester. Students who wish to take more than the nine required credit hours of technique may do so only by permission of the chair. The minor requires a minimum of 18 credit hours in dance as outlined below. A minimum grade of *C* is required in courses for the minor.

Requirements for the Minor (18 Credit Hours)

Dance Historical Studies (3 Credit Hours)

- DANC 4373 - Dance History I: Ballet
  or
- DANC 4374 - Dance History II: Modernism
  or
- DANC 4375 - Dance History III: Jazz History

Theoretical and Applied Studies or Additional Dance Historical Studies (6 Credit Hours)

- DANC 1151 - Dance Production I
- DANC 1326 - Musical Concepts
- DANC 2160 - Introduction to Pilates
- DANC 2170 - Yoga for Dancers
- DANC 3363 - Kinesiology for Dance
- DANC 3374 - The Evolution of American Musical Theatre
- One additional course from Dance Historical Studies

Performance Technique (9 Credit Hours)

Nine credit hours from the following, all by permission:

- DANC 1231 - Jazz Dance I
- DANC 1311 - Ballet I
- DANC 1321 - Modern Dance I
- DANC 2231 - Jazz Dance II
- DANC 2311 - Ballet II
- DANC 2321 - Modern Dance II
- DANC 3231 - Jazz Dance III
- DANC 3311 - Ballet III
- DANC 3321 - Modern Dance III

Total: 18 Credit Hours

Dance Courses

Dance courses open to non-dance majors are offered on a periodic basis. The remaining dance courses are restricted to dance majors unless otherwise indicated in the course descriptions.

Dance Courses Open to Nonmajors	
	DANC 1207, DANC 1301, DANC 1303, DANC 1305, DANC 2305 (by permission), DANC 3207 (by audition), DANC 3374
Dance Courses for Dance Performance Majors	
Performance Technique	*Ballet:* DANC 1018, DANC 1311, DANC 2311, DANC 3016, DANC 3018, DANC 3211, DANC 3216, DANC 3218, DANC 3311, DANC 4004, DANC 4104, DANC 4211, DANC 4311
	Jazz Dance: DANC 1231, DANC 2231, DANC 3231, DANC 4231
	Modern Dance: DANC 1321, DANC 2321, DANC 3221, DANC 3321, DANC 4221
Advanced Performance Technique	DANC 3211, DANC 3216, DANC 3218, DANC 3221, DANC 3231, DANC 3311, DANC 3321, DANC 4104, DANC 4211, DANC 4221, DANC 4231, DANC 4311
Ensemble Performance	DANC 3080

Composition	DANC 3341, DANC 3342, DANC 3343
Theoretical Studies	DANC 1326, DANC 3363, DANC 4190, DANC 4290, DANC 4390,
Historical Studies	DANC 4373, DANC 4374, DANC 4375
Applied Studies	DANC 1144, DANC 1151, DANC 1152, DANC 2160, DANC 2170, DANC 3354, DANC 3366, DANC 4091, DANC 4191, DANC 4291, DANC 4391

DANC 1018 - Pointe I
Credits: 0
Introduces and develops the fundamentals of pointe technique. Admission by placement. Corequisite: DANC 1311, DANC 2311, or DANC 3311.

DANC 1030 - Partnering I Laboratory
Credits: 0
A focus on the development of weight sharing skills, with methodology based in techniques associated with contact improvisation and Bartenieff fundamentals. Covers repertory from Pilobolus, one of the most internationally renowned dance companies that bases its work in contact improvisation. Restricted to first-year students.

DANC 1144 - The Dancer's Toolbox
Credits: 1
Introduces healthy and effective practices that serve to develop a vibrant and successful dance artist. Focuses on physical well-being, artistic protocols, intellectual and cultural perspectives, and diverse approaches to creating and sustaining motivation and inspiration. Also, collaboration with other orientation courses and projects.

DANC 1151 - Dance Production I
Credits: 1
Introduces the technical preparation, production, and running of dance performances. Also, orientation and information for providing support in areas of lighting, sound, costumes, and scenery. Service assignments provide hands-on training in mounting a mainstage production, as well as load-in and strike of dance productions in other venues. Required of all first-year dance majors.

DANC 1152 - Dance Production II
Credits: 1
Service assignments for performance activities as a continuation of material introduced in the previous term. Development of production skills through verbal and visual communication. Includes lab hours outside of and in addition to the regularly scheduled class meeting times. Required.

DANC 1207 - Beginning Tap
Credits: 2
Introduction to the fundamentals of tap dance with an emphasis on dancing with rhythmic clarity, embodying musical concepts, and exploring the difference between weighted and non-weighted tap steps. The class specifically focuses on the following skill areas: music theory, walking and stepping, rudiments, ball changes, double heels, shuffles, slaps and flaps, spanks, paddle and rolls, time steps, and improvisation.

DANC 1218 - Pointe I
Credits: 2
Introduces and develops the fundamentals of pointe technique. Admission by placement.

DANC 1231 - Jazz Dance I
Credits: 2
Exploration of the basics of jazz dance technique and styles (classic, musical theatre, and contemporary forms), including studies in basic positions, placement, isolations, and jazz rhythms.

DANC 1301 - Beginning Ballet
Credits: 3
Introduction to the fundamentals of classical ballet. Not for credit in the dance major.

DANC 1303 - Beginning Modern Dance
Credits: 3
Introduction to basic movement skills, experiences, and concepts of modern dance. Not for credit in the dance major.

DANC 1305 - Beginning Jazz Dance
Credits: 3
Introduction to the fundamentals of jazz dance with emphasis on rhythm and theatrical style. Not for credit in the dance major.

DANC 1311 - Ballet I
Credits: 3
Introduction to and development of the fundamentals of classical ballet and pointe technique. Inclusive of pointe class, men's class, and partnering class.

DANC 1321 - Modern Dance I
Credits: 3
Introduction to and development of the fundamentals of contemporary dance.

DANC 1326 - Musical Concepts
Credits: 3
Introduces basic listening skills, historic musical literature methods for exploring multiple genres of music, and basic music theory related to rhythm and dynamics. The theoretical materials introduced are reinforced and practiced in the composition track.

DANC 2160 - Introduction to Pilates
Credits: 1
Introduces Pilates, a nonimpact, body conditioning method based on principles of abdominal and scapular stabilization. Emphasizes nonweight-bearing exercises, proper alignment, full range of motion, and patterned breathing.

DANC 2170 - Yoga for Dancers
Credits: 1
An introduction to the fundamentals of hatha yoga taught through vinyasa, a fluid series of physical poses initiated by focused breathing. Designed to cultivate mental clarity, to improve strength and flexibility, and to reduce muscular and metal tension.

DANC 2231 - Jazz Dance II
Credits: 2
Continuing development of jazz dance technique and styles, with a focus on dynamics, rhythm, and directional changes. Explores classic jazz, blues, and contemporary jazz styles. Admission by placement.

DANC 2311 - Ballet II
Credits: 3
Continuing exploration of classical ballet technique on the intermediate level with an emphasis on more complex port de bras, adagio, tourner, enchainement, and allegro batterie. Inclusive of pointe class, men's class, and partnering class. Prerequisite: Admission by placement.

DANC 2321 - Modern Dance II
Credits: 3
Continuing exploration of contemporary dance technique at an intermediate level with emphasis on more complex movement phrasing, rhythmic variation, and use of space. Admission by placement.

DANC 2361 - Dance Theory and Practice with an Emphasis on Laban Movement Studies
Credits: 3
Introduces established theoretical concepts and their practical application to the performance and creation of movement. Areas of concentration include somatics, Laban Movement Analysis, motif writing, and Labanotation.

DANC 3016 - Men's Ballet Technique
Credits: 0
Emphasis on the virtuosity specific to the male dancer in the ballet idiom. Corequisite: DANC 1311, DANC 2311, or DANC 3311.

DANC 3018 - Pointe II
Credits: 0
Emphasis on the virtuosity specific to the female dancer in the ballet idiom. Admission by placement. Corequisite: DANC 1311, DANC 2311, or DANC 3311.

DANC 3080 - Ensemble Performance
Credits: 0
Rehearsal and public performance of existing repertory and/or original works. By audition. Departmental approval and administrative enrollment. Required.

DANC 3086 - Explorations in Style
Credits: 0
Students explore a variety of dance forms, styles, and techniques beyond the foundation of the standing curriculum. Prerequisites: Junior or senior standing and technique level placement of II or IV in the appropriate technique.

DANC 3207 - Intermediate/Advanced Tap
Credits: 2
Explores complex rhythm patterns and progressions with an emphasis on rhythmic clarity, embodying musical concepts, exploring the difference between weighted and non-weighted tap steps, and applying the movement concept of full-bodied rhythm-making. Prerequisites: Previous Tap training required. Admittance to class by audition only.

DANC 3211 - Ballet III
Credits: 2
Continuing development of classical ballet technique on the advanced level with an emphasis on technical proficiency, musicality, and movement dynamics. Admission by placement.

DANC 3216 - Men's Ballet Technique
Credits: 2
Emphasis on the virtuosity specific to the male dancer in the balletic idiom. The class objective is to strengthen and develop the dancer to his utmost potential. Includes variations. Admission by placement.

DANC 3218 - Women's Pointe Technique
Credits: 2
Emphasis on the virtuosity specific to the female dancer in the balletic idiom. The class objective is to strengthen and develop the dancer to her utmost potential. Includes variations. Admission by placement.

DANC 3221 - Modern Dance III
Credits: 2
Continuing development of contemporary dance technique at an advanced intermediate level with emphasis on refining performance quality, depth of physically, dramatic expression, and individual style. Admission by placement.

DANC 3231 - Jazz Dance III
Credits: 2
Exploration of more advanced technique and styles of jazz dance, performance projection, individual style, characterizations, and musical theatre themes. Focus on retaining extensive combination sequences. Admission by placement.

DANC 3241 - Dance Composition I
Credits: 2
Introduction to fundamental compositional concepts, including improvisation, abstraction, gesture, motivation,

movement manipulation, and phrasing. Students create solo, duet, and group studies. Required for dance performance majors who matriculate fall 2018 and later. Prerequisite: DANC 1326.

DANC 3242 - Dance Composition II
Credits: 2
Introduction to structural and aesthetic guidelines for the creation of group dance forms. Structural phrasing practices such as canon, unison, and antiphony serve as tools for facilitating student empiricism and experimentation. Required for dance performance majors who matriculate fall 2018 and later. Prerequisite: DANC 3241.

DANC 3243 - Dance Composition III
Credits: 2
Focuses on working collaboratively with peers in music composition and lighting design. The primary project is the creation of an original work generated from a substantiated contextual source drawn from fields such as literature, visual art, science, architecture, philosophy, and religion. Required for dance performance majors who matriculate fall 2018 and later. Prerequisite: DANC 3242.

DANC 3311 - Ballet III
Credits: 3
Continuing development of classical ballet technique on the advanced level with an emphasis on technical proficiency, musicality, and movement dynamics. May be inclusive of pointe class, men's class, and/or partnering class. Prerequisite: Admission by placement.

DANC 3321 - Modern Dance III
Credits: 3
Continuing development of contemporary dance technique at an advanced intermediate level with emphasis on refining performance quality, depth of physicality, dramatic expression, and individual style. Introduction of repertory. Admission by placement.

DANC 3341 - Dance Composition I
Credits: 3
Introduction to fundamental compositional concepts, including improvisation, abstraction, gesture, motivation, movement manipulation, and phrasing. Students create solo, duet, and group studies. Required for dance performance majors who matriculated before fall 2018. Prerequisite: DANC 1326.

DANC 3342 - Dance Composition II
Credits: 3
Introduction to structural and aesthetic guidelines for the creation of group dance forms. Structural phrasing practices such as canon, unison, and antiphony serve as tools for facilitating student empiricism and experimentation. Required for dance performance majors who matriculated before fall 2018. Prerequisite: DANC 3341.

DANC 3343 - Dance Composition III
Credits: 3
Focuses on working collaboratively with peers in music composition and lighting design. The primary project is the creation of an original work generated from a substantiated contextual source drawn from fields such as literature, visual art, science, architecture, philosophy, and religion. Required for dance performance majors who matriculated before fall 2018. Prerequisite: DANC 3342.

DANC 3354 - Dance and Camera
Credits: 3
Instruction in basic camera and editing skills and techniques designed to broaden and empower the dancer's understanding of the moving dance image on camera, and the ways this imagery may be modified and presented as digital media. Covers a variety of modes of digital capture, including single-camera archival, performer viewpoint, multicamera, and site-specific capture techniques. Students learn basic nonlinear editing skills in support of creating a dancer and/or choreographer reel and digital portfolio. Prerequisite: Junior or senior standing.

DANC 3363 - Kinesiology for Dance
Credits: 3
Exploration of basic anatomy and the human body in motion. Normal and deviated skeletal structures and muscular development are assessed in regard to movement efficiency, injury potential, and dance aesthetics. Required.

DANC 3366 - Dance Pedagogy
Credits: 3
Focuses on the theory and practice of teaching methodologies in multiple dance genres. Examines pedagogical theories, standards, and goals for teaching dance, and gives students hands-on experience in teaching modern/contemporary, ballet, and/or jazz-based technique classes. Elements of the course include planning a syllabus, presenting educational material, making corrections, integrating dance accompaniment, organizing a term, and grading. Students may focus on one style of dance, or they may teach in all three modalities investigated during the term. They begin the practical application of course materials by teaching fellow classmates small portions of a technique class, and progress to teaching a full class to nonclassmates.

DANC 3374 - The Evolution of American Musical Theatre
Credits: 3
Examines the evolution of American musical theatre, from its roots in minstrelsy, burlesque, and vaudeville, to its adolescence in comic opera, operetta, and musical comedy, to its codification as musical theatre. Includes the early forms of popular entertainment, the integration of dance, music, and drama into the form known as musical theatre, and the figures of the 20th century who refined this integration on Broadway and in Hollywood.

DANC 3376 - Dance in Contemporary Society - Online
Credits: 3
Exploration of dance as a significant element of the socio-cultural structures that form modern society. An examination of the historical context of seminal periods in the development of contemporary theatrical and social dance as a framework for developing an understanding of dance aesthetics. Students discover aesthetics by exploring the intersection of historical context and personal sensori-emotional values. They develop skills for critical analysis based in observation and research, and demonstrate their understanding of dance aesthetics through writing and discussion.

DANC 4004 - Partnering
Credits: 0
Introduction to the basic elements of partnering inherent in classical ballet. Emphasis on technical skills and classical style. Includes excerpts from classical repertory. Admission by invitation. Prerequisite: Instructor approval. Corequisite: DANC 1311, DANC 2311, DANC 3211, or DANC 3311.

DANC 4090 - Directed Studies
Credits: 0
Supervised projects and/or research in theoretical studies, inclusive of community service projects. Arranged. Prerequisite: Instructor approval.

DANC 4091 - Dance Capstone
Credits: 0
Focuses on creative and logistical processes associated with presenting a fully produced concert in the Bob Hope Theatre. Requirements include choreographing a work; collaborating with MFA theater design students and production personnel; writing choreographic proposals and grants; and developing strategies for and implementing activities associated with producing the concert. Seminars on professional development are also given. Prerequisites: DANC 3341, DANC 3342, and DANC 3343.

DANC 4104 - Partnering
Credits: 1
Introduction to the basic elements of partnering inherent in classical ballet. Emphasis on technical skills and classical style. Includes excerpts from classical repertory. Admission by invitation. Prerequisite: Instructor approval. Corequisite: DANC 1311, DANC 2311, DANC 3211, or DANC 3311.

DANC 4190 - Directed Studies
Credits: 1
Supervised projects and/or research in theoretical studies, inclusive of community service projects. Arranged. Prerequisite: Instructor approval.

DANC 4191 - Dance Capstone
Credits: 1
Focuses on creative and logistical processes associated with presenting a fully produced concert in the Bob Hope Theatre. Requirements include choreographing a work; collaborating with MFA theater design students and production personnel; writing choreographic proposals and grants; and developing strategies for and implementing activities associated with producing the concert. Seminars on professional development are also given. Prerequisites: DANC 3341, DANC 3342, and DANC 3343.

DANC 4211 - Advanced Ballet
Credits: 2
Advanced ballet technique offering a transition from dance study to professional-level work.

DANC 4215 - Advanced Ballet Elective
Credits: 2
Advanced ballet technique offering a transition from dance study to professional level work.

DANC 4221 - Advanced Modern
Credits: 2
Advanced modern technique offering a transition from dance study to professional-level work.

DANC 4231 - Advanced Jazz
Credits: 2
Advanced jazz technique offering a transition from dance study to professional-level work.

DANC 4245 - Advanced Choreographic Projects
Credits: 2
Individual directed studies in choreography with a culminating performance. Prerequisites: DANC 3244 and instructor approval.

DANC 4270 - Advanced Technique Elective
Credits: 2
For advanced–level dancers. Presents local dance artists of the highest caliber in many genres of dance. Each term, the class offers one dance form such as modern, jazz, tap, ballroom, or flamenco. Prerequisite or corequisite: Level III class in the corresponding dance technique.

DANC 4271 - Advanced Technique Elective
Credits: 2
For advanced–level dancers. Presents local dance artists of the highest caliber in many genres of dance. Each term, the class offers one dance form such as modern, jazz, tap, ballroom, or flamenco. Prerequisite or corequisite: Level III class in the corresponding dance technique.

DANC 4290 - Directed Studies
Credits: 2
Supervised projects and/or research in theoretical studies, inclusive of community service projects. Arranged. Prerequisite: Instructor approval.

DANC 4291 - Dance Capstone
Credits: 2
Focuses on creative and logistical processes associated with presenting a fully produced concert in the Bob Hope Theatre. Requirements include choreographing a work; collaborating with MFA theater design students and production personnel; writing choreographic proposals and grants; and developing strategies for and implementing

activities associated with producing the concert. Seminars on professional development are also given. Prerequisites: DANC 3341, DANC 3342, and DANC 3343.

DANC 4311 - Advanced Ballet
Credits: 3
Advanced ballet technique offering a transition from dance study to professional-level work.

DANC 4324 - Modern Dance IV
Credits: 3
Advanced contemporary dance technique, offering a transition from dance study to professional-level work. Admission by placement.

DANC 4370 - Dance Criticism/Aesthetic
Credits: 3
A practical introduction to writing about dance performance, with emphasis on observation and writing skills. Students examine works of master critics to gain a historical perspective and to become familiar with a variety of methodologies in analyzing dance texts. Prerequisites: DANC 2371 or 2372 and instructor approval.

DANC 4373 - Dance History I: Ballet
Credits: 3
The development of ballet as a Western theatre art, from its roots in the French court to contemporary ballet in Europe and America. Emphasis will be placed on choreographic schools and styles as well as the consideration of the ballet aesthetic in a broader cultural context. Required.

DANC 4374 - Dance History II: Modernism
Credits: 3
Explores the development of modernism in dance from the turn of the century to the present, with emphasis on the evolution of choreographic schools and styles. Also, the relationship of dance to the arts and humanities and to the culture in which it is created. Required Prerequisite: DANC 4373 or instructor approval.

DANC 4375 - Dance History III: Jazz History
Credits: 3
Examines the origins of jazz dance from its roots in African music and dance through the present. Chronologically follows the evolutionary blending of movement sources, largely Africanist and Eurocentric, with popular culture, including music, film, television, and media influences. Students develop an understanding of how socio-political and cultural contexts inform jazz dance in 20th and 21st century America and how race, gender, and the dynamics of power and privilege inform the genre. *(Effective spring 2021)*

DANC 4390 - Directed Studies
Credits: 3
Supervised projects and/or research in theoretical studies, inclusive of community service projects. Arranged. Prerequisite: Instructor approval.

DANC 4391 - Dance Capstone
Credits: 3
Focuses on creative and logistical processes associated with presenting a fully produced concert in the Bob Hope Theatre. Requirements include choreographing a work; collaborating with MFA theater design students and production personnel; writing choreographic proposals and grants; and developing strategies for and implementing activities associated with producing the concert. Seminars on professional development are also given. Prerequisites: DANC 3341, DANC 3342, and DANC 3343.

Film and Media Arts

Associate Professor Derek Kompare, **Division Chair**

Professors: Sean Griffin, Mark Kerins, Rick Worland
Associate Professors: Kevin Heffernan, Derek Kompare, Troy Perkins, David Sedman
Assistant Professor: Amber Bemak
Professor of Practice: Lorena Padilla
Adjunct Lecturers: Sally Helppie, Tearlach Hutcheson

General Information

The Division of Film and Media Arts offers students intensive training and close mentorship in the art of cinema and digital media, helping students develop their own artistic voice and vision. Production courses focus on fostering individual creativity and imagination while simultaneously developing technical skills (screenwriting, cinematography, editing and sound). History and critical studies courses expose students to the key artists and theorists of film and media, as well as to the various aesthetic movements that have developed across the globe. Students are also taught the business aspects of film/media, exposing them to how industrial concerns affect technological and artistic choices, and preparing them to successfully negotiate their place in the industry upon graduation. As such, students are encouraged to take an internship in the professional sector to gain practical experience in the field and establish professional contacts.

The B.A. in film and media arts requires 33 credit hours; it is designed to prepare students for careers in media industries or for postgraduate work in film and media studies. The B.A. is also designed to allow time for significant study in another discipline, making room for double majors and multiple minors in other fields. A wide variety of courses in cinema and media history, theory and criticism provide extensive insight into these media as art forms and as vibrant social and cultural institutions. Courses that focus on the business of film, television and new media initiate students into the diverse aspects of these industries. Additionally, courses in production offer experience in writing, shooting, directing and editing film and other media. Finally, a capstone course provides final preparation for either entrance into a career in the media industries or further graduate studies.

The B.F.A. in film and media arts requires 51 credit hours and emphasizes developing the unique creative voice of each student. The B.F.A. is designed to prepare students for careers in media production and to develop their creative abilities in the art form. Courses in production offer experience in writing, shooting, directing and editing film and other media. Courses that focus on the business of film, television and new media initiate students into the diverse aspects of the industries they plan to enter. Additionally, courses in cinema and media history and criticism provide a basic and necessary knowledge of these media as art forms and as vibrant social and cultural institutions. Finally, a capstone sequence provides final preparation for entrance into a career in the media industries, culminating in a collaborative or (if qualified; see "B.F.A. Thesis Film") individual film production.

Instructional Facilities

The Division of Film and Media Arts is located in the Umphrey Lee Center, which houses faculty offices, classrooms, audio, video and film production, and media support areas. Computer labs with a full suite of editing, audio and graphics software are available to majors seven days a week through ID card access; other facilities include a recording studio, an audio mixing suite, storage and equipment checkout, a seminar room, and production classrooms. The division also has a screening classroom in the Owen Arts Center.

Admission

To declare the B.A. in film and media arts, a student must complete FILM 1301 and FILM 1302 with a cumulative 2.700 or better GPA. Students transferring from other universities must have completed equivalent courses and obtained the equivalent GPA in those courses before they can declare the major.

The B.F.A. in film and media arts is a dual admit program: in order to be considered for the B.F.A. in film and media arts, a student must submit a portfolio of film/video work prior to matriculation. The portfolio will be reviewed by a faculty committee to determine acceptance into the B.F.A. program. Upon matriculation, a dually admitted student must complete FILM 1304 and FILM 2354 with a cumulative 2.700 or better GPA in order to declare the B.F.A. To be considered for acceptance into the B.F.A. program while in attendance at SMU, students

must have completed FILM 1304 and FILM 2354 with a cumulative 2.700 or better GPA, and they must submit a portfolio. Students transferring from other universities must submit a portfolio, and must have completed equivalent courses to FILM 1304, FILM 2354 and obtained the equivalent GPA in those courses before they can declare to the major.

Internships

Upon attaining junior-level status (60 credit hours), qualified students are encouraged to pursue internships that enable them to work under the guidance of professionals in the motion picture, television, and other related media industries. Non-classroom internship credit is limited to three credit hours taken as an elective on a pass/fail basis. Students must be a declared film and media arts major, must have taken FILM 1304, and must obtain permission from the division's internship coordinator before enrolling in an internship course (FILM 4125, FILM 4225, or FILM 4325).

B.A. Research Thesis

B.A. students wishing to pursue a senior thesis project (FILM 5314) must identify a proposed research project and then apply to FILM 5314 the spring term before they plan to do the thesis project; specifically, applications are due by the end of the first school week after spring break. Details about what to include in the application packet are available on the division website. **Note:** Thesis registration should take place the final fall of a student's SMU career, and application should take place the spring before that (i.e., for those graduating in May, application and registration will occur the spring term of the student's junior year).

Applications will be reviewed by a faculty committee, and students whose proposals are accepted will be notified by the end of the spring term so they can move forward on the projects during the summer break. Applications for a senior thesis are competitive and only a small number of proposals will be accepted each year.

The ensuing fall, approved students will register for FILM 5314 and complete their projects largely independently, though with advice and help from their committees as necessary. Each student registered for FILM 5314 in a given term will have, at most, until the end of the following term of that academic year to complete the proposed project to the satisfaction of his/her committee. This means thesis defenses should be scheduled no later than mid-April to allow time to address any issues or concerns raised by the committee at the defense.

B.F.A. Thesis Film

One of the capstone options for the B.F.A. degree requires enrollment in a yearlong thesis film course and completion of a senior thesis project. Interested B.F.A. students must submit a thesis project preproduction proposal packet the spring term of their junior year; specifically, proposals are due *by the end of the first school week after spring break*. Details about what to include in the proposal packet are available on the division website. Proposals will be reviewed by the faculty. Students whose proposals are accepted will be notified about any potential problems that need to be addressed prior to registration in FILM 5311 and can move forward on their projects during the summer. Students not submitting proposals will not be allowed to register for this course or to shoot a thesis project. Applications for a senior thesis film are competitive and only a small number of proposals may be accepted each year. The ensuing academic year, B.F.A. students with successful thesis proposals will register for FILM 5311 in the fall, and for FILM 5313 in the spring. Students must make satisfactory progress on their film production in FILM 5311, as determined by their committees, in order to enroll in FILM 5313. Students enrolled in FILM 5313 will have, at most, until the second day of final exams that term to complete the proposed project to the satisfaction of their committees. This means thesis defenses should be scheduled no later than mid-April to allow time to address any issues or concerns raised by the committee at the defense. Each thesis filmmaker will be required to screen publicly his/her finished project after it has been approved by the committee, before the date of spring commencement.

Directed Studies

A directed study is a close collaboration between a professor and an advanced student with junior or senior standing who conducts a rigorous research or creative project that goes beyond the experience available in course offerings. The student must secure formal approval from the professor to undertake a directed studies project.

Class Attendance

Due to limited class space and enrollment pressures, a student who fails to appear on the first day or who fails to attend three consecutive class meetings during an academic term without establishing contact with the instructor may be administratively dropped from a course. Course instructors determine other attendance policies.

Departmental Distinction

Both B.A. and B.F.A. film and media arts majors with sufficiently high standing may graduate from the division with honors (i.e., with departmental distinction). All students who are qualified – 3.750 departmental GPA, 3.500 SMU GPA and 21 credits of film and media arts courses completed – will be informed by the division chair of their eligibility at the end of the fall term of their junior year. To attain the departmental distinction recognition, an eligible candidate must complete a thesis project through the FILM 5311/FILM 5313 or FILM 5314 sequence, and successfully defend the thesis to his or her committee with a final grade of A; candidates must also maintain a 3.750 departmental GPA and 3.500 SMU GPA through graduation. Students should note that admission to FILM 5311/FILM 5313 and FILM 5314 is competitive, and eligibility for departmental distinction does not guarantee acceptance into these courses.

Film and Media Arts, B.A.

Admission Requirements

To declare the B.A. in film and media arts, a student must complete FILM 1301 and FILM 1302 with a cumulative 2.700 or better GPA. Students transferring from other universities must have completed equivalent courses and obtained the equivalent GPA in those courses before they can declare the major.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Production Requirements (6 Credit Hours)

- FILM 1304 - Production 1 (minimum grade C-)
- FILM 2354 - Screenwriting 1

Studies Requirements (9 Credit Hours)

- FILM 1301 - Art of Film and Media
- FILM 2301 - Film and Media Criticism
- FILM 3351 - International Film History (minimum grade C-)

Industry Requirement (3 Credit Hours)

- FILM 1302 - Contemporary Media Industries

Capstone Requirements (3 Credit Hours)

One of the following:

- FILM 4353 - Philosophy of Film and Media
- FILM 5304 - Production 3
- FILM 5314 - Research Thesis (requires application and permission)
- FILM 5315 - Critical Studies Seminar

Film and Media Arts Electives (12 Credit Hours)

Up to 6 credits may come from approved non-FILM courses in related programs.

Total for the Major Only: 33 Credit Hours

Film and Media Arts, B.F.A.

Admission Requirements

The B.F.A. in film and media arts is a dual admit program: in order to be considered for the B.F.A. in film and media arts, a student must submit a portfolio of film/video work prior to matriculation. The portfolio will be reviewed by a faculty committee to determine acceptance into the B.F.A. program. Upon matriculation, a dually admitted student must complete FILM 1304 and FILM 2354 with a cumulative 2.700 or better GPA in order to declare the B.F.A. To be considered for acceptance into the B.F.A. program while in attendance at SMU, students must have completed FILM 1304 and FILM 2354 with a cumulative 2.700 or better GPA, and must submit a portfolio. Students transferring from other universities must submit a portfolio and must have completed courses equivilent to FILM 1304 and FILM 2354, and obtained the equivalent GPA in those courses, before they can declare the major.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Production Requirements (18 Credit Hours)

- FILM 1304 - Production 1
- FILM 2354 - Screenwriting 1
- FILM 3304 - Production 2

Three from the following:

- FILM 3301 - Experimental Camera
- FILM 3302 - Convergent Media
- FILM 3303 - Film Acting
- FILM 3306 - Nonfiction Production
- FILM 3308 - Editing
- FILM 3316 - 16 mm Production
- FILM 3364 - Screenwriting 2
- FILM 3365 - Screenwriting 3
- FILM 3384 - Sound 1
- FILM 3385 - Sound 2
- FILM 3390 - Topics in Production
- FILM 3391 - Topics in Postproduction
- FILM 4301 - TV Ad Concepting and Production
- FILM 4305 - Cinematography
- FILM 4306 - Introduction to Animation
- FILM 4307 - Introduction to 3-D Animation
- FILM 4308 - Postproduction Visual Fx
- FILM 4317 - Film Directing

Studies Requirements (9 Credit Hours)

- FILM 1301 - Art of Film and Media (minimum grade C-)
- FILM 2301 - Film and Media Criticism
- FILM 3351 - International Film History

Industry Requirements (9 Credit Hours)

- FILM 1302 - Contemporary Media Industries
- FILM 4316 - Producers' Seminar

Plus one from the following:

- FILM 3335 - Film Exhibition and Distribution
- FILM 3396 - Topics in Media Industries
- FILM 4304 - Project Development
- FILM 4399 - Global Media Systems
- AMAE 3305 - Budgeting and Financial Literacy in the Arts
- AMAE 3322 - Marketing the Arts
- AMAE 3370 - Entrepreneurship and the Hero Adventure
- AMAE 3387 - Creative Entrepreneurship and Attracting Capital

Capstone Requirement (6 Credit Hours)

- FILM 5304 - Production 3
  or
- FILM 5311 - Thesis Film 1
  or
- FILM 5312 - Media Career Preparation

- FILM 5313 - Thesis Film 2

Film and Media Arts Electives (9 Credit Hours)

Up to 3 credits may come from approved non-FILM courses in related programs.

Community Experience (1 Credit Hour)

B.F.A. pre-admits enroll their first term at SMU; current SMU students admitted to the B.F.A. enroll the first fall after their acceptance.

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 52 Credit Hours

Film and Media Arts Courses

FILM 1301 - Art of Film and Media
Credits: 3
Introduction to the fundamental visual and audio techniques used in cinema, television, and emerging media to convey meaning and mood. Careful analysis of selected films, TV shows, and other media. Required of all majors. Restricted to first-years, sophomores, and juniors.

FILM 1302 - Contemporary Media Industries
Credits: 3
Overview of the key cultural, technological, economic, and legal aspects of media industries today. Required of all majors. Restricted to first-years, sophomores, and juniors.

FILM 1304 - Production 1
Credits: 3
Practical, comprehensive course in the fundamentals of digital video and audio production, covering cameras, microphones, lighting, shooting, editing, sound design, and outputting. Incorporates hands-on exercises, screenings, lecture, and group and individual video projects. Required of all FILM majors. Restricted to first-years, sophomores, and juniors.

FILM 2301 - Film and Media Criticism
Credits: 3
Introduces the various forms of written criticism of film, television, and digital media, including journalistic criticism, genre criticism, and auteur criticism. Also introduces the fundamentals of ideological and cultural criticism. Required of all FILM majors and International Film Studies minors. Prerequisites: FILM 1301. Restricted to FILM majors only, or International Film Studies minors who have completed one of the following courses: ARBC 2302, CHIN 2402, FREN 2302, GERM 2312, ITAL 2302, JAPN 2402, RUSS 2312, SPAN 2302.

FILM 2304 - Creativity and Ideation
Credits: 3
This hybrid production and studies course on creativity in film and media examines the nature of creativity in different fields and businesses. Includes how creativity in film and media manifests both in finished works themselves and within the production process. Explores different sources of ideas and develops ways to generate a myriad of project pitches, stories, and concepts. Students leave the course with multiple ideas for potential projects for future production courses.

FILM 2306 - History of Recorded Music
Credits: 3
Connects major periods of recorded music to innovations in music hardware with special focus on the importance of music to the radio, television, cinema, and new media industries.

FILM 2332 - American Popular Film and Television
Credits: 3
An in-depth examination of specific aspects of American popular cinema and/or television, with a focus on questions of popular culture and ideology, the historical development of styles and genres, and the impact of the Hollywood film industry. Specific topics vary from term to term.

FILM 2344 - History of Animated Film
Credits: 3
Provides a critical and historical overview of the development of the animated film from its origins in the 19th century to the present.

FILM 2354 - Screenwriting 1
Credits: 3
Introduces the language of screenwriting. Topics include the creative process of idea generation and ways to make a story filmable; the creation of memorable and redeemable characters; the arc and transformation of story, including the setup, the question or conflict, the turning point, and the climax or ending; and the details of proper format and presentation. Required of all majors.

FILM 2362 - Diversity and American Film: Race, Class, Gender, and Sexuality
Credits: 3
Historical survey of representations of race, ethnicity, class structure, gender, and sexual orientation in American cinema. Also, the opportunities for minorities within the industry.

FILM 2364 - History of Cinema and TV Comedy
Credits: 3
Survey of the development of comedy in film and television, with emphasis on a historical examination of comic films and TV shows. Also, a theoretical analysis of the phenomena of humor and laughter.

FILM 3300 - Film and Television Genres
Credits: 3
Examines questions of genre pertinent to film and television by focusing on various generic forms and their history. Specific genres for consideration vary from term to term.

FILM 3301 - Experimental Camera
Credits: 3
Pushing the technical boundaries of cameras as capture devices, students experiment with the creative aesthetic

possibilities therein (still and/or motion) and then draw from a variety of genres to create short, experimental films. Students explore diverse concepts such as storytelling, portraiture, documentary, poetry, and abstraction, and they combine elements such as still photography, animation, graphics, narration, sound effects, and original music to create motion picture media. Prerequisites: FILM 1304, or ASPH 1300 and ASPH 1310 (or instructor permission is available for students with a working knowledge of the camera, including aperture, shutter speed, and focal length), and a basic understanding of video editing. Students are required to have access to at least a digital still camera.

FILM 3302 - Convergent Media
Credits: 3
Explores the technical, legal, and practical requirements for creating cross-platform media, from preproduction through distribution. Also, covers crowdsourcing, projects distributed on the Web, and projects utilizing the interactive nature of the Web. The goal is to understand, at a fundamental level, how the Web works and all the components and/or tools that allow interactivity to happen. This course demystifies Internet and Web technology for nontechnical people.

FILM 3303 - Film Acting
Credits: 3
Designed to help the director understand the actor's process of crafting performances from objectives, obstacles, substitutions, inner objects, beats, actions, and doings. Explores a basic overview of these techniques through monologue and scenes. Concentrates on the unique circumstances given to the single-camera film actor: set etiquette (film crew breakdown, terminology), technical basics (the shots), blocking (hitting the mark), and general camera awareness (overlapping, cheating, matching). Also, the marketing needed to secure an acting job (headshots, agents and managers, auditioning, callbacks).

FILM 3304 - Production 2
Credits: 3
Intermediate-level production course building on the lighting, camerawork, editing, and sound design skills and techniques learned in FILM 1304. Focuses on developing an artistic vision, and includes the basics of directing, preproduction, grip, double-system sound, set etiquette, postproduction, and crewing. Prerequisites: FILM 1304, FILM 2354.

FILM 3306 - Nonfiction Production
Credits: 3
Combines the history, theory, and production of nonfiction cinema. Students learn the various styles and forms of documentary film. Hands-on assignments, screenings, readings, lectures, and discussions prepare students to produce and create two documentary and/or experimental films.

FILM 3308 - Editing
Credits: 3
This course on the creative art and craft of editing develops storytelling and rhythmic sensibilities through close study of films, critique and discussion of works in progress, and hands-on practice. Projects include short editing exercises, reworks of students' own existing projects, and re-edits of others' films. Prerequisite: FILM 1304.

FILM 3310 - Screen Artists
Credits: 3
Examines the questions of authorship pertinent to the cinema by focusing on the works of one or more film artists. The specific directors, producers, screenwriters, and other artists treated by the course vary from term to term.

FILM 3316 - 16 mm Production
Credits: 3
A focus on visual language and 16 mm film production techniques. Each student makes a short film, shooting only nonsynchronous original material. Covers use and operation of the Bolex 16 mm film camera: incident light meter, fixed focal length lenses, film speeds, and color temperature ratings. Also, visual design through effective lens choice, mise-en-scène, location usage, and production design. Students gain a deeper understanding of how to use visual language to express their ideas. Prerequisite: FILM 1304.

FILM 3335 - Film Exhibition and Distribution
Credits: 3
Detailed examination of contemporary practices in the distribution and exhibition of theatrical feature films, including the roles of audience survey techniques, booking, publicity, and advertising.

FILM 3351 - International Film History
Credits: 3
Overview of the development of the cinema as a technology, an art form, an industry, and a social institution, beginning with the origins of the medium and tracing its major movements and configurations up to the present. Required of all majors.

FILM 3352 - American Film History
Credits: 3
An overview of U.S. film history from the silent period to the present day. Emphasis on the genres, directors, cinematic techniques, and industrial factors that advanced the art of Hollywood and independent filmmakers.

FILM 3353 - American Broadcast History
Credits: 3
Focus on the history of American television, with an emphasis on the industrial and sociocultural aspects of the medium's development. Issues of race, gender, class, genre, sexuality, and national identity are studied in the context of significant television shows of the past and present.

FILM 3355 - History of Documentary Film and Television
Credits: 3
An overview of the development of the documentary mode surveying historical and critical aspects of nonfiction cinema and TV, including newsreels, social issue films, propaganda movies, wartime documentaries, the cinema verité movement, network documentary series, and reality TV.

FILM 3359 - National Cinemas
Credits: 3
Examines the social, economic, technological, and aesthetic histories of cinema from various nations. Also, the concept of "national cinema." Specific nations for consideration vary from term to term.

FILM 3364 - Screenwriting 2
Credits: 3
Workshop-based class devoted to enhancing the dramatic value of existing stories and developing new ideas. Discussions, written exercises, and feedback guide the development of emotionally muscular, well-crafted stories, and hone the purpose, premise, and structure of writing. Prerequisite: FILM 2354.

FILM 3365 - Screenwriting 3
Credits: 3
Students produce a first draft of a feature screenplay. Review of proper format and act structure leads to a more in-depth exploration of story, character, dialogue, scenes and scene sequencing, narrative devices, and the emotional payoff. Work includes step outlines of each act, scene readings, and collective feedback, culminating in a fully realized first-draft screenplay. Prerequisite: FILM 2354.

FILM 3375 - Postwar European Cinema: 1945-Present
Credits: 3
Presents an overview of postwar European cinema, with a focus on major films, directors, and national movements. Considers cultural and stylistic features that differ from Hollywood-genre models. (Summer abroad)

FILM 3384 - Sound 1
Credits: 3
Comprehensive audio course with instruction and work in recording, editing, mixing, and design. Topics include microphone selection and placement, Pro Tools, advanced recording techniques, routing in a studio and within software, Foley sound effects, automated dialog replacement, and introduction to audio processors. Also, individual and group sound-design projects. Prerequisite: FILM 1304, MSA 3310, or instructor permission.

FILM 3385 - Sound 2
Credits: 3
Audio course that builds on the ideas and tools covered in FILM 3384, with a focus on postproduction. Also, creative sound design, including sound effect creation, synthesis and sampling, artistic approaches to using sound over the course of an entire work, and storytelling through sound. Emphasizes the rerecording mix, including advanced work with processing and automation, surround sound mixing, and mastering. Additional topics such as MIDI, stems, live mixing, music mixing, and mixing for different venues may be added depending on student and instructor interests. Prerequisite: FILM 3384.

FILM 3390 - Topics in Production
Credits: 3
Focus on a specific area of production. Subjects and prerequisites vary from term to term.

FILM 3391 - Topics in Postproduction
Credits: 3
Focus on a specific topic of film/video postproduction. Subjects and prerequisites vary from term to term.

FILM 3395 - Topics in Film and Media Studies
Credits: 3
Focuses on a specific topic pertinent to film and media studies (e.g., film and/or television history, criticism, critical theory). Topics vary from term to term. May be repeated once with a different topic. Prerequisites: FILM 1301 or FILM 1302.

FILM 3396 - Topics in Media Industries
Credits: 3
Focuses on a specific topic related to the business and/or industrial side of film and media. Subjects vary from term to term.

FILM 3397 - Gender and Sexuality in Media
Credits: 3
Focus on a specific topic related to gender and sexuality in film and media. Subjects vary from term to term. May be repeated once with a different topic. Prerequisites: FILM 1301 or FILM 1302.

FILM 4125 - Internship
Credits: 1
Offers practical experience through work in the professional media, either part-time during the fall or spring terms, or full-time during summer. Students may take a maximum of 3 credit hours of internship (150 hours of work per term is calculated as 3 credit hours). Internship credit is given on a pass/fail basis only. Prerequisites: Permission of instructor and upper-division standing.

FILM 4225 - Internship
Credits: 2
Offers practical experience through work in the professional media, either part-time during the fall or spring terms, or full-time during summer. Students may take a maximum of 3 credit hours of internship (150 hours of work per term is calculated as 3 credit hours). Internship credit is given on a pass/fail basis only. Prerequisites: Permission of instructor and upper-division standing.

FILM 4301 - TV Ad Concepting and Production
Credits: 3
Working collaboratively, students create and develop ideas for 30-second commercials for predetermined clients, complete all necessary preparation for producing these concepts, and shoot and edit them into finished ads. Focus is on real-world commercial-style production, emphasizing how to address clients' specific needs while maintaining the creative elements of design and production. Completed ads are submitted to national and/or international advertising competitions and festivals. Note: Interdisciplinary course cross-listed with ADV 4397; usually offered during the January or summer term. Prerequisite: Instructor consent. Generally, students must have taken ADV 3395 and/or FILM 3304 beforehand, though in special cases exceptions may be made.

FILM 4302 - Online Media Distribution
Credits: 3
Overview of the distribution and monetization of online media. Industry concepts such as measuring return on investment, identifying the major industry players, and sustaining an online brand are framed within the contemporary multiplatform media marketplace.

FILM 4304 - Project Development
Credits: 3
Covers creative preproduction and development, including previsualization and script breakdown. Also logistical planning, building a lookbook, finding visual and/or aural references, storyboarding, minor script revising, budgeting, etc. Students do all the creative planning for a major project to potentially shoot in FILM 3304 or as a B.F.A. thesis film. Prerequisite: FILM 3304.

FILM 4305 - Cinematography
Credits: 3
Advanced production class focusing on the articulation of motion picture language through the technical and aesthetic concerns of the lens, composition, lighting, visual design, camera movement, and point of view. Students explore each of these elements in theory and in practice to better develop their visual storytelling skills. Examination and analysis of art, print media, films, videos, and TV shows is complemented by demonstration of and intensive hands-on practice with camera, lighting, grip, electric, filtration, modern color grading techniques, and software training. Prerequisite: FILM 1304.

FILM 4306 - Introduction to Animation
Credits: 3
Studies in traditional animation principles, including squash and stretch, timing and spacing, morphing, paths of action, overlapping actions, walk/run cycles, balance, and jumping. This introduction to character animation, with class exercises in character acting in both voice and movement, helps students translate performance into their animated characters. Students have opportunities to work with multiple methods of animation, including 2-D traditional hand drawn, Claymation, stop motion, and 2-D/3-D CGI software. Prerequisite: FILM 1304.

FILM 4307 - Introduction to 3-D Animation
Credits: 3
An introduction to computer graphics with an emphasis on the popular software package Maya. Includes focus on the user interface, creating of 3-D geometry using polygonal techniques, materials and textures, kinematics, animation, and camera lighting techniques. This course explores the various aspects and fundamentals of computer graphics. Students gain an understanding of the workflow necessary to create 3-D imagery. Assignments employ students to combine a variety of techniques to become familiar with the computer animation production process. Prerequisite: Junior standing or higher.

FILM 4308 - Postproduction Visual Fx
Credits: 3
Project-based studies in design concepts and application to broadcast graphics and visual special FX. Introduces 3-D design and advanced green screen keying and compositing techniques and motion tracking. Also, working within 3-D space and setting up virtual cameras and lights using After Effects. Focuses on visual FX design and advanced key framing techniques for animating FX with final compositing into live-action footage. Prerequisites: FILM 1304 and consent of instructor.

FILM 4316 - Producers' Seminar
Credits: 3
Lectures and discussions by both faculty and guest speakers provide an overview of the basic business and legal aspects of film and television production. Prerequisites: FILM 1304, FILM 2354.

FILM 4317 - Film Directing
Credits: 3
Covers all elements of the directing process, with specific emphasis on how the film director works with screen actors and captures actors' performances to fit the director's unique vision. Working from a script throughout the

term, students learn about script analysis, character outline, casting, rehearsals, and on-set direction. Students create a casting notice, hold auditions, and work with professional and/or student actors. Prerequisite: FILM 1304.

FILM 4325 - Internship
Credits: 3
Offers practical experience through work in the professional media, either part-time during the fall or spring terms, or full-time during summer. Students may take a maximum of 3 credit hours of internship (150 hours of work per term is calculated as 3 credit hours). Internship credit is given on a pass/fail basis only. Prerequisites: Permission of instructor and upper-division standing.

FILM 4351 - Mapping Modernism: Artistic Collaborations in Paris and Moscow, 1890-1940
Credits: 3
Investigates artistic modernism in Paris, Moscow, and St. Petersburg, with a focus on fertile collaborations and exchange in art, dance, theatre, music, and film.

FILM 4353 - Philosophy of Film and Media
Credits: 3
Provides an overview of major philosophical and theoretical writings on cinema, television, and new media (including the work of theorists such as André Bazin, Sergei Eisenstein, Laura Mulvey, and Christian Metz) and demonstrates the application of various analytical perspectives to specific texts. Prerequisites: FILM 2301 and FILM 3351.

FILM 4399 - Global Media Systems
Credits: 3
Overview of contemporary globalized media industries, policies, and texts, with an emphasis on how cultural differences and similarities are represented, marketed, and contested in television, film, and other media forms. Prerequisite: FILM 3351 or instructor consent.

FILM 5110 - Directed Study
Credits: 1
Independent study under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Film and Media Arts Office before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor.

FILM 5210 - Directed Study
Credits: 2
Independent study under the direction and supervision of a faculty member. A directed study is a close collaboration between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Film and Media Arts Office before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor.

FILM 5304 - Production 3
Credits: 3
Advanced-level production course building on the techniques and tools covered in FILM 1304 and FILM 3304, with each student focusing on a particular area of filmmaking craft (directing, cinematography, editing, producing, or sound). All students work collaboratively to take multiple short film projects through production and completion. Emphasizes using craft productively and creatively to create engaging, polished works. May be taken twice for credit. Prerequisites: FILM majors only. Junior or senior standing. FILM 2301, FILM 3304, and at least one course in the desired area of specialization (editing: FILM 3308; cinematography: FILM 4305 or FILM 3316; sound: FILM 3384 or FILM 3385; directing: FILM 4317 or FILM 4304; producing: FILM 4316).

FILM 5310 - Directed Study
Credits: 3
Independent study under the direction and supervision of a faculty member. A directed study is a close collaboration

between the professor and an advanced student who conducts a rigorous project that goes beyond the experience available in course offerings. The student must secure written permission from the instructor and return a completed directed studies form to the Film and Media Arts Office before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor.

FILM 5311 - Thesis Film 1
Credits: 3
A course centered on completing a high-quality senior thesis film using classes as a workshop to improve projects in the preproduction, production, and postproduction phases. This course is designed as the culmination of the production curriculum, providing a forum for putting the ideas, skills, and techniques learned throughout the curriculum into use on one ambitious piece. The student enrolled must come in the first day with director's book in hand and be the director and primary creative force behind the project proposed (e.g., cannot propose to be the producer, writer, or director of photography for the film but not direct it). The thesis film must ultimately be defended to and approved by a faculty committee. Prerequisites: Completion of all other production requirements, senior standing, and acceptance through a competitive application process.

FILM 5312 - Media Career Preparation
Credits: 3
Through various assignments, research, lectures, and guest presentations by industry professionals, students learn about career options and opportunities in the field of media arts. Students are expected to prepare for their short- and long-term career goals through research projects, the creation of personal marketing pieces (e.g., business cards, reels of their work, and film festival submissions), the preparation of appropriate résumés, networking, and the creation of a final project designed to launch their individual careers in the entertainment industry. Substantial work outside the class periods is required. Prerequisite: FILM 5311 or senior standing within the division.

FILM 5313 - Thesis Film 2
Credits: 3
A course centered on completing a high-quality senior thesis film using classes as a workshop to improve projects in the preproduction, production, and postproduction phases. This course is designed as the culmination of the production curriculum, providing a forum for putting the ideas, skills, and techniques learned throughout the curriculum into use on one ambitious piece. The student enrolled must be the director and primary creative force behind the project proposed (e.g., cannot propose to be the producer, writer, or director of photography for the film but not direct it). The thesis film must ultimately be defended to and approved by a faculty committee. Prerequisite: FILM 5311.

FILM 5314 - Research Thesis
Credits: 3
An advanced critical studies course in which students research, write, and defend a research paper, 10,000-15,000 words in length and developed in consultation with a faculty adviser. The thesis is designed to synthesize interests and works that the student may have developed in previous critical studies courses, and to potentially serve as an essay for scholarly publication or for application to a graduate program in media studies. While the course is individually structured and highly self-directed, it also requires regular meetings with the thesis adviser. The thesis must ultimately be defended to and approved by a faculty committee. Prerequisites: Two 2000-level or above FILM critical studies courses, senior standing, and acceptance through a competitive application process.

FILM 5315 - Critical Studies Seminar
Credits: 3
A high-level research seminar that fulfills a capstone requirement for the film B.A. Topics may vary each term; may be repeated once for credit with a different topic. Prerequisites: FILM 3351 and one other 3000- or 4000-level critical studies course; nonmajors need consent of instructor.

Meadows School of the Arts Interdisciplinary Programs and Courses

Interdisciplinary Studies in the Arts, B.A.

Professor Kevin Paul Hofeditz, **Director**

The major in interdisciplinary studies provides an opportunity for outstanding students to design programs that bring together multiple disciplines within the Meadows School of the Arts. Another option is to combine a discipline or disciplines housed in the Meadows School of the Arts with areas of study found elsewhere in the University for the purpose of exploring new forms of artistic expression or communication. Academically qualified students may explore the possibility of a specialized major with the program director. If the proposed plan appears to have merit, the program director will suggest faculty advisers who can provide further assistance in designing the program.

Program Description

Students with at least a 3.000 GPA in the first 24 credit hours taken through enrollment at SMU are eligible to pursue the program. The program consists of individually designed majors in the arts of at least 36 term hours, with a minimum of at least 24 credit hours of advanced courses (3000 level or above). At least two-thirds of the courses that count toward the major must be taken in the Meadows School of the Arts. The program must satisfy all University-wide requirements and all other University and Meadows School graduation requirements. Students are responsible for fulfilling all prerequisites for courses taken. This program is designed to allow exceptional students an opportunity to design an interdisciplinary program; it is not intended to be a way of avoiding divisional requirements. Certain Meadows courses are open only to majors or by audition. Admission to such courses is at the discretion of the faculty of the division in which such courses are offered. The degree will be identified as a Bachelor of Arts. The transcript will refer to the major as "Interdisciplinary Studies in the Arts." A note on the transcript will denote the specialization. Students intending to seek admission to graduate schools are encouraged to include at least 30 hours of a coherent set of courses in an identifiable disciplinary field.

Administrative Procedures

The Meadows Academic Policies Committee shall have the final authority to approve all specialized programs. In order to initiate discussion of a specialized major, a student must submit to the program director a preliminary plan of study in the form of a brief statement of goals and a course list made in consultation with appropriate faculty advisers. A number of steps must be completed prior to declaring the major:

1. If the program director approves the program, the student and the faculty advisers must form a supervisory committee with a minimum of three members. The supervisory committee will provide advice and guidance to the student. At least two members, including the chair of the committee, shall be resident members of the Meadows School faculty. The chair of the committee will normally be the faculty adviser.
2. The student will submit a formal plan of study to the supervisory committee. The plan of study must include a proposal for a special project such as a thesis, exhibition or performance. Satisfactory completion (in the judgment of the supervisory committee) of this special project is a requirement. If the commit-tee approves the plan, it must then be submitted to the program director, who will submit it to the Meadows Academic Policies Committee for approval.
3. Once approved by the Meadows Academic Policies Committee, the plan will be transmitted to the Office of the Meadows Associate Dean for Student Affairs. The plan of study normally should be submitted to the Meadows Academic Policies Committee for approval before the completion of 60 total credit hours of coursework.
4. The chair of the supervisory committee and the program director will recommend candidates for graduation. The chair of the supervisory committee will certify that the required project has been completed to the satisfaction of the committee. The supervisory committee may recommend that the degree be awarded with distinction if the GPA in the courses required for the major exceeds or equals 3.500 and if the project is deemed excellent. The associate dean for student affairs will be responsible for verifying and certifying graduation requirements.
5.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree.

Graphic Design Minor

Senior Lecturer Cheryl Mendenhall, **Director**

The graphic design minor provides a basic understanding and development of skills necessary for message design across various media. Topics and skill sets may include identity (logos, branding collateral material, packaging), digital (social, mobile, online media), publication (magazines, newspapers, books), and other areas of design. The minor is designed for students who wish to incorporate an interest in graphic design into their major coursework or to pursue further study in a variety of design disciplines.

Through this minor, students will demonstrate an understanding of the history of graphic design communication, demonstrate the visual and aesthetic skills needed to communicate design messages across media, apply production techniques and technologies to solve graphic design problems, create a design portfolio that includes both print and online collateral material, understand the interrelationship of graphic design to society, and develop a better understanding of graphic design in the various communication industries (advertising, journalism, public relations, publishing, etc.) The minor requires 21 credit hours, distributed as follows:

Requirements for the Minor

Core Courses (12 Credit Hours)

- ADV 1360 - Creative Production

- ADV 2323 - Word and Image, Art and Design: 1900-Present
  or
- ASAG 1310 - Word and Image, Art and Design: 1900-Present

- ADV 3323 - Introduction to Graphic Design
- ADV 3361 - Typography

4000-Level Electives (3 Credit Hours)

At least one course from the following:

- ADV 4363 - Logo and Trademark Design
- ADV 4364 - Publication Design
- ADV 4366 - Infographics
- ADV 4367 - Image-Making
- ADV 4368 - Graphic Design for Digital Media

Additional Electives (6 Credit Hours)

Two additional courses from the following or chosen from additional 4000-Level Electives:

- ADV 2363 - Special Topics in Graphic Design
- ADV 5303 - Special Topics in Graphic Design
- ASDR 1300 - Introduction to Drawing
- ASIM 1300 - Introduction to Digital/Hybrid Media
- ASIM 1310 - Creative Coding I
- ASIM 3310 - Digital/Hybrid Media Workshop
- ASPH 1300 - The Basics of Photography
- CRCP 1350 - The Art of 3-D Modeling and Animation
- DSIN 5301 - The Context and Impact of Design
- DSIN 5302 - Form and Composition

- FILM 1304 - Production 1

Total: 21 Credit Hours

Meadows School of the Arts Courses

MSA 1001 - FACE: First–Year Arts Community Experience
Credits: 0
A collaborative, cross–disciplinary exploration for students enrolled in the foundational courses in art, dance, music, and theatre. Students meet collectively to build community, to explore a common currency among the arts, to take risks, to discover alternative models of practice, to understand the concept of artists as entrepreneurs, and to define personal goals for success. Graded pass/fail. Corequisite: ASAG 1300, DANC 1144, FILM 1304, FILM 2354, MUAS 1020, or THEA 1303.

MSA 1010 - Undergraduate Teaching Practicum
Credits: 0
Development of teaching and leadership skills through preparing lesson plans, leading discussion groups, assessing course presentations, and coordinating and developing supplemental learning experiences. The corresponding course by the same professor is required as either a prerequisite or corequisite. Students spend a minimum of 1 hour per week preparing a lesson plan, 1 hour in discussion planning with the professor, and 1 hour leading a discussion and listening group.

MSA 1101 - FACE: First–Year Arts Community Experience
Credits: 1
A collaborative, cross–disciplinary exploration for students enrolled in the foundational courses in art, dance, music, and theatre. Students meet collectively to build community, to explore a common currency among the arts, to take risks, to discover alternative models of practice, to understand the concept of artists as entrepreneurs, and to define personal goals for success. Graded pass/fail. Corequisite: ASAG 1300, DANC 1144, FILM 1304, FILM 2354, MUAS 1020, or THEA 1303.

MSA 1110 - Undergraduate Teaching Practicum
Credits: 1
Development of teaching and leadership skills through preparing lesson plans, leading discussion groups, assessing course presentations, and coordinating and developing supplemental learning experiences. The corresponding course by the same professor is required as either a prerequisite or corequisite. Students spend a minimum of 1 hour per week preparing a lesson plan, 1 hour in discussion planning with the professor, and 1 hour leading a discussion and listening group.

MSA 1315 - Mass Media and Technology
Credits: 3
An overview of technology as it applies to mass media in America, emphasizing the access of information via the Internet and World Wide Web. Topics include the expanding nature of technology, legal aspects, and the effects of technology on society.

MSA 1350 - The Arts in Their Cultural Context: The City of the Imagination
Credits: 3
Introduction to the way that the performing and visual arts are situated in their temporal, historiographic, geographic, and social contexts. Examines issues of theory and practice in the individual disciplines (art, art history, cinema, dance, music, and theatre) through readings that engage varied methodologies and through hands-on experiences with practitioners and scholars in Dallas.

MSA 2051 - Artists in the World: The Teaching Artist as Catalyst
Credits: 0
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the

community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. First course of a two-term sequence. Prerequisites: Consent of instructor and a minimum GPA of 3.000.

MSA 2052 - Artists in the World: The Teaching Artist as Catalyst
Credits: 0
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. After completion, students are eligible to apply for a competitive paid fellowship in the following year. Second course of a two-term sequence. Prerequisites: MSA 2051, MSA 2151, or MSA 3351; consent of instructor; and a minimum GPA of 3.000.

MSA 2151 - Artists in the World: The Teaching Artist as Catalyst
Credits: 1
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. First course of a two-term sequence. Prerequisites: Consent of instructor and a minimum GPA of 3.000.

MSA 2152 - Artists in the World: The Teaching Artist as Catalyst
Credits: 1
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. After completion, students are eligible to apply for a competitive paid fellowship in the following year. Second course of a two-term sequence. Prerequisites: MSA 2051, MSA 2151, or MSA 3351; consent of instructor; and a minimum GPA of 3.000.

MSA 2301 - Media Literacy
Credits: 3
An exploration of the critical thinking skills necessary to understand and interpret modern media, both news and entertainment. Social networking and the Internet, the complexities of the 24-hour news cycle, celebrity news and infotainment, violence, media framing and bias are among the topics examined.

MSA 2305 - Building Digital Audiences
Credits: 3
Students explore how audience behavior is changing the ways media are produced, consumed, and monetized; learn best practices for engaging audiences professionally and ethically on social media; achieve competency in digital metrics; learn introductory code; become fluent with mobile storytelling techniques; and deepen their understanding of the economic imperatives driving transformational change across media industries. Part of the pre-admission

subset for fashion media and journalism majors. Also for fashion media and journalism majors and minors who have not taken JOUR 2398.

MSA 3101 - Directed Study in the Arts
Credits: 1
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 3130 - Special Topics
Credits: 1
Various topics determined by the instructor regarding studies in the arts.

MSA 3201 - Directed Study in the Arts
Credits: 2
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 3230 - Special Topics
Credits: 2
Various topics determined by the instructor regarding studies in the arts.

MSA 3232 - Acting in Song II: Ensemble
Credits: 2
Builds on the skills developed in MSA 3331. Includes preparing, rehearsing, and performing selected duets, trios, and ensemble pieces from the musical theatre repertoire. Also, synthesizing vocal and acting performance techniques. Culminates in the creation of a workshop performance. Prerequisites: Permission of instructor; musical theatre minor or major or minor in dance, music, or theatre. Students minoring in musical theatre have priority to enroll in the class.

MSA 3301 - Directed Study in the Arts
Credits: 3
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 3310 - Fundamentals of Audio and Sound
Credits: 3
Provides a solid grounding in the concepts, techniques, and terms associated with audio across disciplines. Individual and/or group projects acquaint students with the basics of recording, editing, mixing and processing, and distributing audio projects. Includes lectures and discussions on these and other areas such as listening practices, rights, and fair use to supplement hands-on work with a broader perspective on sound.

MSA 3330 - Special Topics
Credits: 3
Various topics determined by the instructor regarding studies in the arts.

MSA 3331 - Acting in Song
Credits: 3
Focuses on the acquisition and/or redirection of the skills, technical vocabulary, and techniques necessary to create fully realized performances of songs from the musical theatre repertoire. Prerequisites: Permission of instructor; PERB 3307 or VOIC 3200; THEA 3311 or THEA 3303. Students minoring in musical theatre have priority to enroll in the class.

MSA 3351 - Artists in the World: The Teaching Artist as Catalyst
Credits: 3
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. First course of a two-term sequence. Prerequisites: Consent of instructor and a minimum GPA of 3.000.

MSA 3352 - Artists in the World: The Teaching Artist as Catalyst
Credits: 3
Introduces artists-in-training to the basic principles, practices, and priorities of the artist as teacher in the community. Provides a foundation in any artistic discipline and for the most common kinds of education work that artists undertake, such as working with young people (in schools and other settings), teaching one's art form, integrating curriculum and in-depth residencies, creating artistically authentic programs with an education thrust, working in challenging situations, and working with adults in performance, educational, and professional settings. Students design a program they can use in real-world settings. Includes field observations, readings, written response, and active participation and presentation. After completion, students are eligible to apply for a competitive paid fellowship in the following year. Second course of a two-term sequence. Prerequisites: MSA 2051, MSA 2151, or MSA 3351; consent of instructor; and a minimum GPA of 3.000.

MSA 3368 - Texts and the City
Credits: 3
This course is based in the academic discipline of Performance Studies. Students examine the theme of "performance" from a broad range of critical perspectives including the disciplines of history, literature, anthropology, literary studies, and gender studies as well as the critical theory and analysis of the act of performance itself. Includes site visits, guided tours, attendance at performances, along with discussion and lecture. Topics, discussions, and assignments will use interdisciplinary and multidisciplinary approaches for understanding complex issues of identity, social and cultural practice, and multiple perspectives on the concept of "performance." Prerequisite: Permission of instructor required.

MSA 3369 - London: Exploring Representation of the Performative
Credits: 3
This course is based in the academic discipline of performance studies, which examines performance from a broad range of critical perspectives and includes the disciplines of history, anthropology, literary studies, gender studies, critical theory, and analysis of the act of performance itself. The intention is to use the city of London (and its environs: theatres, concert halls, sports arenas, exhibitions, museums, tourist attractions, fairs, markets, law courts, pubs, restaurants, etc.) as a template to engage the student with the vibrant dialogues between art, culture, and history that make it a thriving, multicultural city and an international melting pot.

MSA 3390 - Interdisciplinary Studies in the Arts: SMU Abroad
Credits: 3
Interdisciplinary topics in the performing, visual, and communication arts.

MSA 3391 - Interdisciplinary Studies in the Arts: Bali
Credits: 3
Interdisciplinary topics in the performing, visual, and communication arts.

MSA 4099 - Meadows Undergraduate Full-Time Status
Credits: 0

MSA 4324 - Competitive Mock Trial
Credits: 3
Provides the opportunity to investigate and explore principles of legal advocacy within a competitive environment. Trains students to represent SMU as members of the SMU Mock Trial Team before invitational, regional, and national trial competitions. Prerequisite: Approval of instructor.

MSA 5105 - Directed Study in the Arts
Credits: 1
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 5205 - Directed Study in the Arts
Credits: 2
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 5305 - Directed Study in the Arts
Credits: 3
Independent study in an interdisciplinary arts topic under the direction and close supervision of a faculty member of the Meadows School. Prerequisite: Instructor approval.

MSA 5310 - Directed Study
Credits: 3
Independent study under the direction of an instructor.

MSA 5326 - Cultural Policy
Credits: 3
Overview of policy analysis and practice of the cultural sector in its different areas (heritage, visual and performing arts, etc.) and perspectives. Analyzes the historical and theoretical backgrounds of cultural policy; cultural policies in practice (stylized facts and geographical and political divergence at the local, national, and international level); cultural policies and their socioeconomic impact; culture, diversity and development; and cultural access and arts education.

Journalism

Professor Tony Pederson, **Chair**

Professor: Tony Pederson
Associate Professors: Jake Batsell, Jared Schroeder
Assistant Professor: Myles Ethan Lascity
Executive-in-Residence: Pam Harris Hackett
Professors of Practice: Valerie Evans, Jacqueline Fellows, Lauren Smart, Karen Thomas
Visiting Professor of Practice: Jenny Davis
Adjunct Professor of Practice: Jayne Suhler
Adjunct Lecturers: Edward Egros, Robert Hart, Linda Leavell, Annette Nevins, William McKenzie, Jean-Jacques Taylor

General Information

The world of journalism is changing fast. Once-divergent media forms are rapidly coming together in ways that make it essential for 21st-century journalism education to reflect the complexity of actual practice. Graduates must be prepared to function and lead in a new and changing environment. The Division of Journalism offers the Bachelor of Arts with majors in journalism and fashion media and a minor in journalism to prepare students to succeed in this dynamic setting.

Majors study multimedia journalism, including broadcast, print and online formats. They learn professional skills that enable them to adapt swiftly to a changing journalism environment. Content that is useful and interesting will have value regardless of the delivery system or systems of a particular era. For this reason, students also are taught the intellectual and theoretical skills they will need to help them interpret the world around them and understand the role of the media in society. They will graduate as clear, concise thinkers and writers.

Specialized knowledge also plays an increasingly critical role for media professionals in this competitive age. Students in the Division of Journalism may develop expertise in financial reporting while pursuing their degree through the William J. O'Neil Program in Business Journalism, detailed below. Students with an interest in the growing fields of fashion journalism or fashion industry promotions may earn a Bachelor of Arts in fashion media, a rigorous interdisciplinary program housed in the Division of Journalism. Students may also specialize in sports journalism in a program intended to give a sports-specific background to reporting of sports across all media platforms.

Instructional Facilities

The Division of Journalism is located in the Journalism Complex in the Umphrey Lee Center, which houses faculty and administrative offices, audio and video production, and media support areas. The main media content areas are a complete broadcast studio with control room and a convergence newsroom with computer equipment designed for production of multiplatform news content. Classrooms and conference rooms in the Journalism Complex are state of the art, with complete audio and video capabilities. All labs are equipped with the latest computers for each student.

The Journalism Complex is a secured area where journalism majors are permitted 24-hour access. The concept and design of the Journalism Complex promote the individualized instruction for which the Division of Journalism is known. Each student is encouraged to spend as much time as desired on highly specialized equipment to pursue projects and assignments in a professional media work environment.

Admission and Degree Requirements

Strong writing skills are essential to the student's success in the division's journalism curriculum and later in the profession of journalism. Students may enroll in journalism classes as first-year students. To major or minor in the Division of Journalism, students must have completed 24 hours of study, which may include transfer hours. Students must also have achieved a minimum grade point average of 2.500 in the following courses, with no grade lower than *C+* in any one of them:

- WRTR 1312 or equivalent
- JOUR 2103
- JOUR 2302 (Journalism major or minor) or JOUR 2310 (Fashion Media major)

- MSA 2305

Students must declare the major or minor before taking JOUR 2312. Students transferring from other universities must have completed equivalent courses and obtained the equivalent GPA and minimum grades in those courses before they can declare a major or minor in the Division of Journalism.

The Journalism Division has a focus on and commitment to diversity, recognizing the need for diversity in media and communications in the 21st century.

Scholarships

Honors scholarships are awarded each year to outstanding students who intend to major in journalism. Other scholarships are available to journalism students through a variety of foundations and gifts to the division.

The William J. O'Neil Program in Business Journalism

As global markets and fast-paced technological change transform the American economic and media landscapes, mastery of business news and familiarity with entrepreneurship have emerged as marketable skills across multiple professional fields. The O'Neil Program equips aspiring journalists and media professionals with the knowledge to understand complex business and economic issues, the journalistic skills to make those topics understandable and accessible to multiplatform audiences, and the entrepreneurial spirit to take charge of their own careers. And because financial literacy is critical to many professions, the tools and techniques developed in this program also will prepare students for more sophisticated and insightful coverage of subjects ranging from politics to technology to entertainment to the environment to the fashion industry.

This innovative interdisciplinary program includes courses in both the Cox School of Business and the economics department. In addition to the 37 credit hours required for the major in Journalism and/or Fashion Media, students wishing to concentrate in business and finance journalism must complete either a second major in business; the 18-hour minor in business administration; or the 18-hour summer minor in business, plus ECO 1311 and ECO 1312. Within the JOUR curriculum, O'Neil students must complete JOUR 4306 - Business and Journalism and a second business-related JOUR elective. Students will put into practice what they're learning about business, financial markets, entrepreneurship, and economics in advanced journalism classes, through coverage of North Texas companies and the regional economy, and in the development of their own ideas.

Admission to the program is subject to the approval of the faculty member who holds the O'Neil Chair in Business Journalism. Students studying in the program will be advised by this faculty member.

Concentration in Sports Journalism

Recent research indicates an increasing market need for specialized knowledge in sports journalism, and concomitant growth in the job market for sports journalists. This program is intended to train sports journalists of the future, and will include study of the kinds of data, statistics, modern analytics, and social media that are playing a growing role in sports of all kinds. The 37-hour sports concentration is within the journalism major and includes all the core requirements of that major. In addition, students will complete a gateway course, JOUR 2306 - Sports, News Media and Social Media Analytics, and JOUR 4344 - Sports Journalism, as well as six hours of interdisciplinary work that includes options for sports-related courses in history, ethics, and law.

Internships and Practica

Upon achieving junior and senior status, students are encouraged to take on experiences that enable them to work under the guidance of professionals in the news industry (internships). Many on-campus activities also offer practical experience (practica), and students are strongly urged to take advantage of the opportunities available to them to work in on-campus media, including SMUDailyCampus.com, SMU Look, and SMU-TV.

Practica are taken for one credit hour at a time. Internships may be taken for one, two or three credit hours at a time, depending on the number of hours worked. A total of three credit hours of internships and practica may be counted toward a student's degree requirements but no more than two internships may be taken for credit. Internships and practica may not be counted toward the required six credit hours of electives within the division.

All internships taken for credit must have prior approval of the faculty adviser. Internships and practica are taken on a pass/fail basis only and are restricted to journalism majors and minors.

Class Attendance

Due to limited class space and enrollment pressures, a student who fails to appear on the first day of journalism class may be administratively dropped from the class at the instructor's discretion. Furthermore, students must comply with any more specific attendance policies spelled out in course syllabi; creation and enforcement of such policies are entirely at the instructor's discretion. The division strives to keep class size small enough for individual attention, and large enough to ensure discussion and interaction among students.

Off-Campus Programs

Journalism students may participate in academic programs offered abroad and through partners in the United States.

SMU-in-London. SMU students can earn six credit hours by enrolling in the SMU-in-London communications program. Conducted each year during the first session of summer school, the program allows students to study in London, a hub for international communications. Courses offered carry three credit hours. They do not require prerequisites, and they are designed to take full advantage of London's importance as an international center. Students live in dormitories in London. As part of their international experience, students are encouraged to explore the culture and fine arts offerings of London and European countries on their own, as class schedules permit.

Programs of Study

Journalism students will study multimedia journalism, learning the basic skills and conventions of broadcast journalism, print journalism and the emerging skill set needed to practice journalism on the Internet. The major requires 37 credit hours within the division. Journalism majors may count no more than 40 hours of JOUR courses toward graduation. Courses may be used to fulfill only one of the student's divisional requirements (i.e., a student may not fulfill two divisional requirements with one course).

Minimum Grade Requirement

Only courses passed with a grade of C- or better will count for credit toward the major or minor in journalism or the major in fashion media.

Additional Requirement

All Journalism and Fashion Media majors must declare and complete a second major or minor of their choosing. If a student chooses a double major in Journalism and Fashion media, a minor outside the division must be completed. If a Fashion Media major chooses to minor in Journalism, another minor or major outside the division must be completed.

Departmental Distinction

The honors program in journalism is highly selective. At midterm of the sophomore year, and again at midterm of the junior year, declared journalism majors with a GPA of 3.500 or better can apply to the honors program. All interested students, including those who have been previously awarded honors scholarships, need to apply for admission to the program. Those wishing to graduate with distinction in journalism must complete six hours of honors coursework within the Division of Journalism. Where specific honors sections are not offered in the Division of Journalism, students may work with individual professors to develop appropriate honors coursework within regular classes, subject to approval of the honors program director. Three hours must be in honors skills; the remaining three hours must come from either honors topical studies or honors critical studies. In addition, seniors must complete JOUR 5308 as a directed study and produce an honors thesis. More information is available from the honors program director, Division of Journalism, Meadows School of the Arts, 280 Umphrey Lee, Dallas TX 75275. The honor society is separate from the honors program. At midterm of the senior year, the top 10 percent of the graduating class is invited for membership in Kappa Tau Alpha, the Journalism Mass Communication Honor Society.

Fashion Media, B.A.

Admission and Degree Requirements

Strong writing skills are essential to the student's success in the division's journalism curriculum and later in the profession of journalism. Students may enroll in journalism classes as first-year students. Those seeking permission to major in fashion media must have completed 24 hours of study, which may include transfer hours. Students must also have achieved a minimum grade point average of 2.500 in the following courses, with no grade lower than *C+* in any one of them:

- WRTR 1312 (or equivalent)
- JOUR 2103
- JOUR 2310
- MSA 2305

Students must declare the major or minor before taking JOUR 2312. Students transferring from other universities must have completed equivalent courses and obtained the equivalent GPA and minimum grades in those courses before they can declare a Fashion Media major.

The Journalism Division has a focus on and commitment to diversity, recognizing the need for diversity in media and communications in the 21st century.

All fashion media majors must declare and complete a second major or a minor of their choosing. The journalism major and minor do not meet this requirement. Required courses must be passed with a grade of *C-* or better to count for credit toward the major in fashion media.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Introductory Core (10 Credit Hours)

- JOUR 2103 - Writing and Editing Tutorial and Laboratory
- JOUR 2302 - Ethics of Convergent Media
- JOUR 2310 - Fashion, Media, and Culture
- JOUR 2312 - News Reporting

Written Media Skills (3 Credit Hours)

One from the following:

- JOUR 3313 - Advanced News Reporting
- JOUR 3362 - Magazine Writing
- JOUR 3382 - Feature Writing

Visual Media Skills (3 Credit Hours)

- JOUR 2304 - Video and Audio Production

Critical Studies (3 Credit Hours)

- JOUR 4360 - Race, Class, and Gender in Media

Any JOUR critical studies course:

- JOUR 3345 - Mass Media in Great Britain: Politics, Pin-Ups, and Propaganda
- JOUR 3390 - Literary Journalism
- JOUR 3396 - History of Journalism
- JOUR 4331 - Current Issues in the News

- JOUR 4350 - Human Rights and the Journalist
- JOUR 4370 - Law and Ethics in a High-Tech World
- JOUR 4397 - Journalism in Latin America
- JOUR 5305 - Topics in Critical Studies

Advanced Core (9 Credit Hours)

- JOUR 3326 - Media and the Art of Fashion Design

- JOUR 3327 - Media and the Business of Fashion
  or
- JOUR 4306 - Business and Journalism

- JOUR 4316 - Communication Law

Capstone (3 Credit Hours)

- JOUR 4395 - Fashion Journalism

Electives (6 Credit Hours)

Two additional JOUR courses (excluding internship and practicum) or any of the following courses:

- ADV 1300 - Survey of Advertising
- ADV 1360 - Creative Production
- ANTH 2301 - Introductory Cultural Anthropology
- ANTH 3310 - Gender, Sex, and Sexuality: Global Perspectives
- ARHS 1351 - Visual Cultures: Topics in Art History
- ARHS 3367 - History of Photography I: Origins-1940
- ARHS 3369 - Contemporary Art: 1965-Present
- ARHS 3380 - History of Photography II: 1940-Present
- ASPH 1300 - The Basics of Photography
- CCPA 3341 - Ethnicity, Culture, and Gender: Introduction to Critical Studies in Communication
- CCPA 4397 - Fashion Industry Public Relations Strategy
- SOCI 3371 - Sociology of Gender
- WGST 2322 - Gender: Images and Perspectives

Minor or Second Major and Free Electives

Hours vary as needed to meet University residency and degree requirements

Total for the Major Only: 37 Credit Hours

Journalism, B.A.

Admission and Degree Requirements

Strong writing skills are essential to the student's success in the division's journalism curriculum and later in the profession of journalism. Students may enroll in journalism classes as first-year students.

Those seeking permission to major in journalism must have completed 24 hours of study, which may include transfer hours. Students must also have achieved a minimum grade point average of 2.500 in the following courses, with no grade lower than *C+* in any one of them:

- WRTR 1312 (or equivalent)
- JOUR 2103
- JOUR 2302
- MSA 2305

Students must declare the major or minor before taking JOUR 2312. Students transferring from other universities must have completed equivalent courses and obtained the equivalent GPA and minimum grades in those courses before they can declare a Journalism major.

The Journalism Division has a focus on and commitment to diversity, recognizing the need for diversity in media and communications in the 21st century.

All journalism majors must declare and complete a second major or a minor of their choosing. The fashion media major does not meet this requirement. Required courses must be passed with a grade of *C*- or better to count for credit toward the major in journalism.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Journalism Core Curriculum (13 Credit Hours)

- JOUR 2103 - Writing and Editing Tutorial and Laboratory
- JOUR 2302 - Ethics of Convergent Media
- JOUR 2304 - Video and Audio Production
- JOUR 2312 - News Reporting
- JOUR 4316 - Communication Law

Advanced Writing Requirement (3 Credit Hours)

One from the following:

- JOUR 3313 - Advanced News Reporting
- JOUR 3362 - Magazine Writing
- JOUR 3382 - Feature Writing

Skills Requirement (3 Credit Hours)

One from the following:

- JOUR 3313 - Advanced News Reporting
- JOUR 3350 - Fashion Broadcast: SMU Look TV
- JOUR 3357 - Photojournalism
- JOUR 3362 - Magazine Writing
- JOUR 3365 - Investigative Reporting
- JOUR 3382 - Feature Writing
- JOUR 3385 - Broadcast I
- JOUR 4310 - Editorial and Opinion Writing
- JOUR 4344 - Sports Journalism
- JOUR 4384 - Broadcast II
- JOUR 4395 - Fashion Journalism
- JOUR 5306 - Topics in Journalism Practice

Topical Studies Requirement (3 Credit Hours)

One from the following:

- JOUR 2306 - Sports, News Media, and Social Media Analytics
- JOUR 3326 - Media and the Art of Fashion Design
- JOUR 3327 - Media and the Business of Fashion
- JOUR 3355 - Media Entrepreneurship
- JOUR 4300 - Broadcast News Seminar

- JOUR 4306 - Business and Journalism
- JOUR 4307 - Business News Seminar
- JOUR 4345 - Media and Politics
- JOUR 4387 - Arts Beat
- JOUR 4392 - Journalism and Religion
- JOUR 4396 - International Reporting
- JOUR 5301 - Topics in Journalism
- JOUR 5302 - Topics in Journalism
- JOUR 5303 - Topics in Journalism
- JOUR 5304 - Topics in Journalism

Critical Studies Requirement (3 Credit Hours)

One from the following:

- JOUR 2310 - Fashion, Media, and Culture
- JOUR 3345 - Mass Media in Great Britain: Politics, Pin-Ups, and Propaganda
- JOUR 3390 - Literary Journalism
- JOUR 3396 - History of Journalism
- JOUR 4331 - Current Issues in the News
- JOUR 4350 - Human Rights and the Journalist
- JOUR 4360 - Race, Class, and Gender in Media
- JOUR 4370 - Law and Ethics in a High-Tech World
- JOUR 4397 - Journalism in Latin America
- JOUR 5305 - Topics in Critical Studies

Journalism Electives (6 Credit Hours)

Selected from JOUR courses, excluding internship or practicum.

Outside Elective (3 Credit Hours)

One from the following:

- ANTH 2301 - Introductory Cultural Anthropology
- HIST 3301/HRTS 3301 – Human Rights: America's Dilemma
- HIST 3304 - African Americans and the Civil Rights Movement
- HIST 3326 - US Religious History Since 1865
- HIST 3327 - Women in American History From 1865
- HRTS 3310/WGST 3310 – Gender and Human Rights
- PLSC 1320 - Introduction to American Government and Politics
- PSYC 3341 - Social Psychology
- SOCI 1300 - Introduction to Sociology
- SOCI 2300 - Social Problems
- Another course from ANTH, HIST, HRTS, PLSC, PSYC, or SOCI by petition

Capstone (3 Credit Hours)

- JOUR 4398 - Digital Journalism

Minor or Second Major and Free Electives

Hours vary as needed to meet University residency and degree requirements.

(Optional) Sports Journalism Concentration (37 Credit Hours)

The sports journalism concentration requires a total of 37 credit hours and requires a minor or second major outside the Journalism Division.

Students may concentrate in sports journalism by taking JOUR 2306, substituting JOUR 4344 for the Advanced Writing requirement, and substituting six credit hours from the following for Journalism electives:

- APSM 2310 - Contemporary Issues in Sport Management
- APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
- APSM 3372 - Advanced Public Relations in Sport
- APSM 4345 - Sports Marketing
- HIST 2337 - History of Sports in the United States
- SOCI 3355 - Just a Game? Sport and Society
- PSYC 3341 - Social Psychology
- PSYC 3365 - Organizational Psychology

Total for the Major Only: 37 Credit Hours

Journalism Minor

The minor in journalism provides a basic understanding of the role of the news media in American society and an introduction to the basic skills necessary for the practice of the field.

Students seeking permission to minor in journalism must have completed 24 hours of study, which may include transfer hours. Students must also have achieved a minimum grade point average of 2.500 in the following courses, with no grade lower than C+ in any one of them:

- WRTR 1312 (or equivalent)
- JOUR 2103
- JOUR 2302
- MSA 2305

Only courses passed with a grade of C- or better will count for credit toward the minor in journalism.

Requirements for the Minor

Core Courses (19 Credit Hours)

- JOUR 2103 - Writing and Editing Tutorial and Laboratory
- JOUR 2302 - Ethics of Convergent Media
- JOUR 2304 - Video and Audio Production
- JOUR 2312 - News Reporting
- JOUR 4316 - Communication Law
- Additional JOUR course
- MSA 2305 - Building Digital Audiences

One from the following: (3 Credit Hours)

- JOUR 3313 - Advanced News Reporting
- JOUR 3362 - Magazine Writing
- JOUR 3382 - Feature Writing

Total: 22 Credit Hours

Journalism Courses

JOUR 2103 - Writing and Editing Tutorial and Laboratory
Credits: 1
Introduces basic journalistic writing for all media. Students review English grammar and punctuation, and become versed in Associated Press writing style. Combines an online tutorial with a required weekly lab. Required before enrollment in JOUR 2312.

JOUR 2302 - Ethics of Convergent Media
Credits: 3
Explores the ethical issues (e.g., free speech, privacy, and government regulation and censorship) that provide the foundation for all communication fields and have become more complex as media and industries have converged.

JOUR 2304 - Video and Audio Production
Credits: 3
Offers practical training in the fundamentals of broadcast communication. Students learn field production and editing, as well as broadcast writing and studio and control room skills. Students produce several original projects for potential broadcast on SMU's various student media. This class requires a significant amount of outside, scheduled work for both in-studio and mobile multimedia production. Includes 3 hours of lecture and one 1.5-hour lab per week. Prerequisites: JOUR 2103, JOUR 2302. Restricted to fashion media majors or journalism majors or minors.

JOUR 2306 - Sports, News Media, and Social Media Analytics
Credits: 3
Students learn the evolving study of applied statistics in sports. Using a brief introduction to statistical theory and a history of sports statistics, students build on existing metrics to learn how to better explain critical trends within major sports. Computer-assisted methods are taught to help with acquiring data and discovering trends within the numbers to see what patterns can aid with storytelling. Students learn data visualization as an aid to storytelling and understand social media metrics to maximize engagement with audiences. Prerequisites: Sophomore standing. Limited to journalism and applied physiology and sport management premajors and majors.

JOUR 2310 - Fashion, Media, and Culture
Credits: 3
Explores how and why people tell others who they are by what they wear, and what roles fashion magazines, blogs, and other media play in that process. Examines fashion, media, and their relationship to culture, with an emphasis on the contemporary designers and fashion editors who have shaped the modern fashion landscape. Supports the fashion media major and minor.

JOUR 2312 - News Reporting
Credits: 3
Rigorous foundation writing and reporting course needed to complete the major. Students gain fundamental skills (e.g., gathering, documenting, organizing, and writing news) that are essential to accurate, fair, clear, and concise journalism. Includes 3 hours of lecture and one 1.5-hour lab per week. Restricted to journalism majors and minors or fashion media majors and minors. Prerequisites: JOUR 2103 and JOUR 2302.

JOUR 2325 - Fashion Media Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Journalism chair.

JOUR 2326 - Journalism Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Journalism chair.

JOUR 2398 - Introduction to Digital Media and Analytics
Credits: 3
Students explore how audience behavior is changing the way news is produced and consumed; learn best practices for using social media journalistically and ethically; achieve competency in digital metrics; learn introductory code; become fluent with mobile newsgathering techniques; learn basic principles of digital photo editing and copyright; and create their personal portfolio websites. Restricted to journalism majors and minors or fashion media majors. Prerequisites: JOUR 2103 and JOUR 2302.

JOUR 3310 - Fashion Media Studies Abroad
Credits: 3
Specific topics for study abroad must be approved by the Division of Journalism chair.

JOUR 3313 - Advanced News Reporting
Credits: 3
Builds on the foundation of JOUR 2312. Students learn to analyze information quickly and accurately while applying critical thinking skills. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2312. Restricted to journalism majors and minors or fashion media majors and minors.

JOUR 3326 - Media and the Art of Fashion Design
Credits: 3
An in–depth look at how the elements of art and the principles of design apply to the medium of fashion. Examines the work of fashion designers, from inspiration through creative process to final product, with an emphasis on analysis and critique and the use of personal inspiration and creative process techniques to style and narrate looks. Prerequisites: JOUR 2103, JOUR 2302, and JOUR 2310. Restricted to fashion media majors.

JOUR 3327 - Media and the Business of Fashion
Credits: 3
Introduces journalism students to the trillion-dollar global fashion industry. Students learn to find and tell stories about the businesses behind the fashions, from designers to manufacturers, marketers, and retailers, and about how these enterprises affect their investors, customers, workers, and communities. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2310, JOUR 2312. Restricted to fashion media majors.

JOUR 3345 - Mass Media in Great Britain: Politics, Pin-Ups, and Propaganda
Credits: 3
Explores the interaction between power, politics, and mass media in Great Britain; the history of the media in Great Britain; the health (or lack thereof) of mass media today and its impact on politics and popular culture; and how journalists report the news abroad and in the United States. Daily assignments include examination of newspapers and broadcast and Internet news available in the U.K. Students write papers based on visits to sites such as the British Library and the Imperial War Museum. British journalists, scholars, and foreign correspondents present guest lectures. Final class projects that include papers and class presentations involve group studies in specialized areas of British media. (SMU-in-London)

JOUR 3350 - Fashion Broadcast: SMU Look TV
Credits: 3
An immersive broadcast experience in which students work as a highly motivated team to produce all components of a weekly fashion, beauty, and lifestyle show. "SMU Look" is a mix of news packages, special segments, tips, and round-table discussion. Students generate all content, and produce the show in the division's digital news studio, rotating through all technical and anchoring positions. Students also post-edit the show, preparing it for publication on Student Media digital sites, and conduct all social media and branding campaigns. Prerequisites: JOUR 2304, JOUR 2312. Restricted to majors and minors.

JOUR 3355 - Media Entrepreneurship
Credits: 3
Increases students' understanding of the entrepreneurial landscape of the changing media industry. Students learn how to combine their versatile skills and creative passion to become more enterprising and shape their own media careers. Students conceive, develop and pitch an entrepreneurial idea while also learning the basics of freelancing and self-employment. Includes frequent visits from entrepreneurial journalists and guest speakers. Prerequisites: JOUR 2302, sophomore standing.

JOUR 3357 - Photojournalism
Credits: 3
Training in the techniques and execution of digital photojournalism, including computer processing of images. Students learn to produce digital photojournalism, and have the opportunity to generate photographic images for the division's convergence website. Restricted to fashion media and journalism premajors, majors, and minors.

JOUR 3362 - Magazine Writing
Credits: 3
Introduces the diverse world of magazines. Students study exceptional magazine feature writing (profiles, narratives,

analytical pieces, etc.) and practice feature magazine reporting and writing to prepare for professional work in the industry. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2312. Restricted to majors and minors.

JOUR 3365 - Investigative Reporting
Credits: 3
Intensive introduction to the art of generating original news ideas about issues of public significance; developing critical news judgment; unearthing often difficult-to-access information; and organizing the information into focused, well-documented, and compelling stories. Prerequisite: JOUR 3313, JOUR 3362, JOUR 4395, or JOUR 3382. Restricted to journalism majors and minors.

JOUR 3382 - Feature Writing
Credits: 3
Emphasizes the conceptual and technical skills needed to develop one's own voice, to bring a literary quality to one's journalism, and to produce professional-level descriptive pieces and features for various media. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2312. Restricted to majors and minors.

JOUR 3385 - Broadcast I
Credits: 3
Builds on skills learned in JOUR 2304, with more emphasis on deadline-driven, original, campus-based reporting and broadcast producing. Students learn how to assign coverage, to enterprise original story ideas, and to write cogent broadcast stories and turn them in on deadline using video, set debriefs, and Web components. Convergence laboratory required. Prerequisites: JOUR 2304, JOUR 2312.

JOUR 3390 - Literary Journalism
Credits: 3
Students explore and analyze nonfiction through roundtable discussion, book reviews, and creative writing. Requires heavy reading, with an emphasis on books and essays of the last 100 years. Prerequisite: Sophomore standing.

JOUR 3396 - History of Journalism
Credits: 3
The story of how American journalism became what it is today. Emphasizes the people and events that transformed the media, from the Colonial printer to 21st-century media conglomerates. Prerequisite: Sophomore standing.

JOUR 4090 - Undergraduate Research
Credits: 0
For students who hold research fellowships but are not enrolled in any credit hour courses. No tuition. Prerequisite: Consent of instructor.

JOUR 4101 - Journalism Practica
Credits: 1
Students work in on-campus media positions. A maximum of 2 credit hours may be earned and counted toward degree requirements. Offered on a pass/fail basis only. Prerequisites: Junior standing and permission of adviser. Restricted to majors and minors.

JOUR 4102 - Journalism Practica
Credits: 1
Students work in on-campus media positions. A maximum of 2 credit hours may be earned and counted toward degree requirements. Offered on a pass/fail basis only. Prerequisites: Junior standing and permission of adviser. Restricted to majors and minors.

JOUR 4125 - Internships in Journalism
Credits: 1
Internship credit for off-campus work in the field during the regular term or in the summer. Students are limited to a total of 3 credit hours for internships. These hours will not count toward the 9 credit hours of required electives in the division. Offered on a pass/fail basis only. Prerequisites: Junior standing and permission of adviser. Restricted to majors and minors.

JOUR 4127 - Internship in Fashion Media
Credits: 1
Off-campus interdisciplinary internship in any area of the fashion media field during the regular term or summer. Graded pass/fail. Prerequisites: Junior standing and permission of adviser. Restricted to fashion media majors and minors.

JOUR 4225 - Internships in Journalism
Credits: 2
Internship credit for off-campus work in the field during the regular term or in the summer. Students are limited to a total of 3 credit hours for internships. These hours will not count toward the 9 credit hours of required electives in the division. Offered on a pass/fail basis only. Prerequisites: Junior standing and permission of adviser. Restricted to majors and minors.

JOUR 4227 - Internship in Fashion Media
Credits: 2
Off-campus interdisciplinary internship in any area of the fashion media field during the regular term or summer. Graded pass/fail. Prerequisites: Junior standing and permission of adviser. Restricted to fashion media majors and minors.

JOUR 4300 - Broadcast News Seminar
Credits: 3
A small group of selected students conduct an in-depth study of current events, examining and analyzing issues and producing sophisticated television programming. Prerequisite: JOUR 3385.

JOUR 4306 - Business and Journalism
Credits: 3
An intensive introduction to business, financial markets, and economics, combined with practice in reporting and writing about these complex topics. Gives aspiring business journalists the tools to make business information understandable and accessible to news audiences. Prerequisite: JOUR 2312.

JOUR 4307 - Business News Seminar
Credits: 3
Builds upon the skills and insights gained in JOUR 4306. Combines close reading and analysis of business coverage with detailed exploration of how to gather and understand financial and economic information. Also, intensive practice in reporting and writing business stories. Prerequisite: JOUR 4306.

JOUR 4310 - Editorial and Opinion Writing
Credits: 3
Examines the role of opinion writing in American journalism and teaches techniques that will help students develop clear and effective editorials and columns on a range of topics. The course emphasizes critical thinking and writing skills. Prerequisites: JOUR 2103, JOUR 2302, and JOUR 2312. Restricted to fashion media and journalism majors and minors.

JOUR 4316 - Communication Law
Credits: 3
An exploration of the historical and philosophical bases for freedom of expression. Practical applications of the law (e.g., libel, censorship, access, privacy, obscenity, copyright, and government regulations) that affect broadcasting, advertising, and the press. Prerequisite: Sophomore standing.

JOUR 4325 - Internships in Journalism
Credits: 3
Internship credit for off-campus work in the field during the regular term or in the summer. Students are limited to a total of 3 credit hours for internships and practica. These hours will not count toward the 9 credit hours of required electives in the division. Offered on a pass/fail basis only. Prerequisites: Junior standing and permission of adviser. Restricted to majors and minors.

JOUR 4326 - Washington Term Internship
Credits: 3
Internship opportunities in the nation's capital. Restricted to majors and minors.

JOUR 4327 - Internship in Fashion Media
Credits: 3
Off-campus interdisciplinary internship in any area of the fashion media field during the regular term or summer. Graded pass/fail. Prerequisites: Junior standing and permission of adviser. Restricted to fashion media majors and minors.

JOUR 4331 - Current Issues in the News
Credits: 3
Encourages students to think critically about important issues in journalism today, acquaints them with the classic writings and ideas that have shaped modern journalism, and identifies the key concepts that have formed recent journalism criticism. The goal is to teach communications majors to become more creative problem-solvers as professionals, and more critical as media consumers. Prerequisite: Sophomore standing.

JOUR 4344 - Sports Journalism
Credits: 3
Emphasizes the particular narrative style and newsgathering techniques of sports stories and coverage. Students will learn how to interview sports personalities and compose stories relating to the competitive events and social issues surrounding the world of sports. Prerequisites: JOUR 2103, JOUR 2302, and JOUR 2312. Restricted to fashion media and journalism majors and minors.

JOUR 4345 - Media and Politics
Credits: 3
Increases students' understanding of political and elections processes so they can evaluate and practice political journalism. Covers campaigns, governance, analysis of media coverage, and practical application. Prerequisite: JOUR 2312.

JOUR 4350 - Human Rights and the Journalist
Credits: 3
Students analyze current human rights issues and the ways U.S. and international media cover these issues. Topics include the role of images in conveying the harsh truth of any human rights story, and the ways new media formats, shrinking budgets, etc. are changing the way journalists who cover these stories do their job. Prerequisite: Sophomore standing.

JOUR 4360 - Race, Class, and Gender in Media
Credits: 3
Examines the impact and representation of race, class, and gender in the mass media from historical and critical perspectives. Prerequisite: Sophomore standing. Restricted to fashion media, human rights, and journalism majors and human rights and journalism minors only.

JOUR 4370 - Law and Ethics in a High-Tech World
Credits: 3
Engages students in an in-depth examination of unresolved concerns regarding freedom of expression in the 21st century. Topics include digital copyright, privacy in the era of social media and virtual assistants, artificial intelligence, and hate speech. Course provides students the opportunity to examine topics of interest in depth and to develop both topical knowledge and critical thinking skills. Prerequisites: JOUR 4316 or CCPA 3300.

JOUR 4384 - Broadcast II
Credits: 3
Furthers the foundation established in JOUR 3385. The curriculum emphasizes deadline-driven, off-campus beat reporting and broadcast producing. Students learn how to plan original story ideas, including investigative and long-form pieces. Convergence laboratory required. JOUR 4300 is highly recommended before taking this course. Prerequisites: JOUR 3313 (or JOUR 3362, JOUR 3385, or JOUR 4395) and JOUR 3385. Restricted to journalism majors and minors.

JOUR 4387 - Arts Beat
Credits: 3
Students gain experience in a convergence class in reporting on arts and entertainment and writing reviews, etc. Includes sessions with local critics and experts in various areas of arts and literature. Prerequisite: JOUR 3313, JOUR 3362, JOUR 3382, or JOUR 4395. Restricted to journalism majors and minors.

JOUR 4392 - Journalism and Religion
Credits: 3
Introduces the basics of the world's major religions and describes how journalists should cover faith–based organizations and interview religious leaders. Prerequisites: JOUR 2103, JOUR 2302, and JOUR 2312. Restricted to fashion media and journalism majors and minors.

JOUR 4395 - Fashion Journalism
Credits: 3
Contemporary fashion journalism runs the gamut from magazine trend pieces and celebrity profiles to hard-hitting news stories on trade and environmental regulations in the developing world to the free-form content of social media. This upper-level course focuses on fashion reporting in all forms: written, visual, and aural. Designed both to hone students' journalistic skills and increase their knowledge and understanding of the subject matter. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2304, JOUR 2312 and either JOUR 3326 or JOUR 3327. Limited to fashion media majors only.

JOUR 4396 - International Reporting
Credits: 3
Prepares students to work as foreign correspondents by helping them understand international production processes. Students profile current American correspondents who work in foreign countries, comparing their work to those of their contemporaries. Includes newsgathering assignments that encourage students to publish on matters of international interest. Prerequisite: JOUR 3313, JOUR 3362, JOUR 3382 or JOUR 4395. Restricted to majors and minors.

JOUR 4397 - Journalism in Latin America
Credits: 3
Provides students with an understanding of the practice of journalism in Latin America. Students profile specific regions, examining the historical, political, economic, cultural, ethnic, and even geographical differences, to better understand the issues that affect the struggle for freedom of the press. Prerequisite: Sophomore standing.

JOUR 4398 - Digital Journalism
Credits: 3
Students explore the use of new communication technologies for multimedia storytelling; work with social media as a tool for newsgathering, community building, and the fostering of audience engagement; learn about Web metrics and search engine optimization techniques; and update and perfect their personal portfolio websites and social media presence. Includes 3 hours of lecture and one 1.5-hour lab per week. Prerequisites: JOUR 2103, JOUR 2302, JOUR 2304, JOUR 2312; junior or senior standing. Restricted to journalism and fashion media majors and journalism minors.

JOUR 5106 - Topics in Journalism Practice
Credits: 1
Provides an introduction to new, cutting-edge areas of journalism practice. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5110 - Directed Study
Credits: 1
Independent study under the direction and supervision of a faculty member. In close collaboration with the instructor, the student conducts a rigorous project that goes beyond the experience in course offerings. Written permission from the instructor is required, and a completed directed studies form must be filed with the Division of Journalism before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor. Restricted to majors and minors.

JOUR 5210 - Directed Study
Credits: 2
Independent study under the direction and supervision of a faculty member. In close collaboration with the instructor, the student conducts a rigorous project that goes beyond the experience in course offerings. Written permission from the instructor is required, and a completed directed studies form must be filed with the Division of Journalism before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor. Restricted to majors and minors.

JOUR 5301 - Topics in Journalism
Credits: 3
Provides a study and discussion setting for an issue or topic of current interest in the journalism profession. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5302 - Topics in Journalism
Credits: 3
Provides a study and discussion setting for an issue or topic of current interest in the journalism profession. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5303 - Topics in Journalism
Credits: 3
Provides a study and discussion setting for an issue or topic of current interest in the journalism profession. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5304 - Topics in Journalism
Credits: 3
Provides a study and discussion setting for an issue or topic of current interest in the journalism profession. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5305 - Topics in Critical Studies
Credits: 3
Provides a study and discussion setting for a critical media studies issue. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5306 - Topics in Journalism Practice
Credits: 3
Provides an introduction to new, cutting-edge areas of journalism practice. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5307 - Topics in Journalism
Credits: 3
Provides a study and discussion setting for an issue or topic of current interest in the journalism profession. Offered on an irregular basis, depending on the significance and timeliness of the topics to be studied.

JOUR 5308 - Honors Thesis
Credits: 3
Students research and write a thesis examining an aspect of or an issue in the field of journalism. Required for all students wanting to graduate with an honors degree in journalism. Prerequisite: Permission of instructor. Restricted to majors and minors.

JOUR 5310 - Directed Study
Credits: 3
Independent study under the direction and supervision of a faculty member. In close collaboration with the instructor, the student conducts a rigorous project that goes beyond the experience in course offerings. Written permission from the instructor is required, and a completed directed studies form must be filed with the Division of Journalism before the start of the term during which the study is to be undertaken. Prerequisites: Junior standing and permission of instructor. Restricted to majors and minors.

Music

Associate Professor David Mancini, **Director**
Senior Lecturer Melissa Murray**, Associate Director**

Professors: Joaquín Achúcarro, Jack Delaney, Andrés Díaz, Virginia Dupuy, Stefan Engels, Clifton Forbis, Samuel Holland, David Karp, Carol Leone, Barbara Hill Moore, Paul Phillips
Associate Professors: Sarah Allen, Christopher Anderson, Robert Frank, Pamela Elrod Huffman, Peter Kupfer, David Mancini, Xi Wang
Assistant Professors: Kristina Nielson, Daniel Tague
Artist-in-Residence: Alexander Sitkovetsky
Professors of Practice: Aaron Boyd, Chad Hoopes, Derrick Horne, Michael Lively, Catharine Lysinger, Julie Scott
Senior Lecturers: Dale Dietert, Mark Feezell, Kevin Gunter, Hank Hammett, Lane Harder, Janice Lindstrom, Michael Lively, Melissa Murray, Jason Smith
Lecturer: Hyae-jin Hwang,
Adjunct Professors: Christopher Adkins, Jean Larson Garver, Robert Guthrie, Erin Hannigan, Gregory Hustis, John Kitzman, Wilfred Roberts
Adjunct Associate Professors: Scott Dettra, Kevin Finamore, Paul Garner, Matthew Good, Barry Hearn, Nora Henson, David Heyde, Haley Hoops, Ronald Houston, Alexander Kienle, Diane Kitzman, Pierre LaPointe, Emily Levin, George Nickson, Brian Perry, Gregory Raden, Ted Soluri, Barbara Sudweeks, Kara Kirkendoll Welch
Adjunct Assistant Professors: Deborah Baron, John Bryant, Kim Corbet, Don Fabian, Lynne Jackson, Brian Jones, Camille King, Jon Lee, David Matthews, Darren McHenry, Naoko Nakamura, Paul Schmidt
Adjunct Lecturers: Brian Bentley, Liudmila Georgievskaya, Melissa Heffner, Drew Lang, Jamal Mohamed, Edward Smith
Assistant Director for Operations: David Brown
Accompanist: Tara Emerson
Mustang Band Staff: Don Hopkins, Tommy Tucker

General Information

The Division of Music is devoted to the advancement of music performance and scholarship; preparation of the next generation of music professionals; and service to the artistic life of the community, nation and world. Students in the Division of Music pursue the Bachelor of Arts or Bachelor of Music degree. Majors and minors offered by the division are described below. All music programs are accredited by the National Association of Schools of Music.

Admission

Music is a dual admit program: in addition to meeting University admission criteria, first-year and transfer applicants intending to major in music must complete an audition prior to matriculation. Auditions assess a prospective student's previous experience and potential for success in the intended major. Entering students intending to major in composition must submit a portfolio of original compositions and pass a performance audition. Both the Division of Music and the University must accept the candidate in order for the student to be classified as a music major. Information regarding auditions may be obtained at www.smu.edu/musicadmission. In decisions regarding advanced placement, the Division of Music considers transfer credits and AP test results; however, departments reserve the right to give additional tests to determine the most appropriate placement in any course sequence.

Non-degree students are those applicants for admission who wish to be enrolled in University courses for credit but are not intending to pursue an SMU degree program. Non-degree students are admitted through the Office of Undergraduate Visiting Student Services and are eligible to register in day and evening classes for which they have satisfied prerequisites and received departmental approval. Admission as a non-degree-seeking student does not qualify a student as a degree applicant. The presence of non-degree students in courses or ensembles may not displace an opportunity for a degree-seeking music major.

Departmental Placement in Music Theory/Musicianship and Class Piano

All entering undergraduate students (except transfer students from 4-year NASM schools) are required to take entrance examinations in written music theory and musicianship before classes begin. These exams include both

online and paper-based components. The date and time of these exams are listed in the "Orientation Schedule" published by the Division of Music each year and emailed to students. Students are advised to make appropriate end-of-summer plans to be present and on time for these exams. Students must be available for the entire testing period, and these exams cannot be made up once the semester begins. Since the exams are used for course section placement, all students are required to take the exams whether or not they are seeking credit by examination.

All music degrees require coursework in Class Piano. Prospective music majors with no formal piano study should enroll directly in PERB 1131 - Class Piano I during their first semester. Prospective music majors with any amount of formal piano study must be tested individually for placement into the appropriate Class Piano course. Scheduling information for these tests is provided in the "Orientation Schedule" published by the Division of Music each year and emailed to students.

Facilities

Concert performances are presented in Caruth Auditorium, a 490-seat concert hall, the 168-seat Robert J. O'Donnell Lecture-Recital Hall, Perkins Chapel, and the Dr. Bob and Jean Smith Auditorium in the Meadows Museum. Opera productions are presented in the 400-seat Bob Hope Theatre. The Jake and Nancy Hamon Arts Library houses an inspiring collection of more than 110,000 books and scores, more than 31,000 audio and video recordings, and more than 100,000 items in special collections of research materials such as the Van Katwijk Music Collection.

Facilities available to music students include 45 newly renovated practice rooms in the Jeanne R. Johnson Practice Complex.

The electronic keyboard laboratory, used for class instruction in piano, theory and improvisation, is equipped with 17 Yamaha Clavinova 88-key digital pianos, an MLC 100 Communications Center and state-of-the-art audio-visual technology, including high definition projectors, screens and sound system.

Student recitals and faculty and ensemble performances are digitally recorded in formats that are acceptable for auditions, competitions and archival purposes.

The Group and Individual Music Therapy Clinics, connected by an observation room, offer student therapists opportunities for clinical practicum experiences under faculty supervision.

The Division of Music maintains an inventory of 30 Steinway grand pianos, three harpsichords and eight pipe organs, including a celebrated three-manual 51-stop tracker organ built by C.B. Fisk located in Caruth Auditorium.

The Electronic Music Studio is a comfortable, multitrack, MIDI and digital audio facility featuring hardware and software on a Macintosh platform. The studio is well equipped to support algorithmic composition, interactive performance, synthesis, sampling, sequencing, signal processing, video post scoring and digital recording with stereo, quad and 5.1-surround monitoring.

Act of Enrollment

By the act of enrolling in the Meadows School of the Arts Division of Music for participation in a music course – whether as a music major, music minor or through elective study – and in consideration of the right to participate in such course, the student

1. Acknowledges his or her willingness to accept and comply with the standards and policies set forth in the *Division of Music Handbook* and all other University rules and regulations.
2. Assigns to the University the exclusive right to use the proceeds from any curricular or extracurricular promotional, publicity or entertainment activities associated with the course, including but not limited to photographs, television, recordings, motion pictures, concerts and theatrical productions, and any right the student may have to receive any royalties and/or other sums that may be due to the student from such activities.
3. Releases the University, its trustees, officers, agents, employees and assigns from any obligation to pay any proceeds, royalties and/or other sums that may be due to the student in connection with the course.
4. Agrees, on request of the University, to periodically execute all documents necessary to acknowledge the assignment and release set forth herein.

Specific Music Requirements

All first-year students are premusic majors. Status as a music major after the first year is not automatic. Undergraduate students who wish to declare a music major do so officially during the spring term of their first full year of residence.

During the fourth semester of study, each music major or transfer student must apply for upper-division degree/major status. The appropriate department faculty and the Director review all upper-division applications.

All full-time music majors are required to enroll for MUAS 1010 each term of residence, for which they will receive a grade of Credit/No Credit. In the fall of their first year of study, music majors enroll in MUAS 1020 instead of MUAS 1010. Minors must enroll in MUAS 1010 each semester in which they are registered for required music courses.

All B.M. students, with the exception of majors in guitar, piano, organ, composition and music therapy, are required to enroll in large ensemble (wind ensemble, orchestra or choral ensemble) each term of residence. Woodwind, brass and percussion students perform in both Meadows Symphony Orchestra and Meadows Wind Ensemble at the discretion of the ensemble directors. Exemptions may be granted by written approval of the ensemble director and the Director of the Music Division.

Transfer students will not be exempted from the large ensemble requirement based on transfer credits. Music artistic scholarships may require enrollment in a large ensemble each term of residence. Exemptions may be granted by written approval of the Director of the Music Division.

Required recitals must include a cross section of the repertory in the student's major performance area. The performance of contemporary works is encouraged.

The Division of Music requires attendance at all scheduled class meetings, lessons and ensemble rehearsals. The instructor determines the extent to which absences affect a student's grade. Students should become thoroughly acquainted with the class attendance policy established by their teachers and ensemble directors. Except for official University-excused absences, instructors are not obligated to make special arrangements for any student to accommodate an absence. All reasons for absence should be submitted to the instructor in advance. Failure to do so may result in a student being dropped from a course with a grade of *W* (before the calendar deadline to drop) or receiving a grade of *F* for the course.

All undergraduate music majors and minors must receive a minimum grade of *C*- in all courses specified in the major or minor. The major or minor consists of all courses listed in the student's degree plan with the exception of Common Curriculum courses, free electives and coursework in a minor or second major outside music. Students must retake major or minor courses in which a grade below *C*- is received. A course may be repeated only once.

All undergraduate music education majors who are seeking teacher certification must receive a grade of *C* or better in courses required for teacher certification (24 hours in the content area, as defined by the Texas Education Agency). A minimum cumulative GPA of 2.500 for all University courses leading to the degree and a minimum GPA of 3.000 in courses required for teacher certification are required for student teaching.

Dual Major in Performance and Music Education

Students who meet degree candidacy criteria in both performance and music education can pursue dual majors in these fields. If begun by the second or third term, the second major can usually be achieved with a range of nine to 17 additional credits (approximately one term) through careful selection of electives and curricular planning. Students considering these plans should consult their adviser and the department heads as early as possible in their academic program.

Music Composition, B.M.

The Bachelor of Music in Composition is designed to develop fundamental craft and technical skills, to encourage independent stylistic development and artistic excellence, and to give students the real-world experiences and practical professional skills needed for the many different careers open to today's composer.

Each year, students are expected to organize at least one performance of an original work (such as a film score, incidental music, a dance collaboration, or an electronic music installation) completed in their studies. This performance may be in a studio recital or other appropriate venue.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Core Composition/Theory Courses (18 Credit Hours)

- MUTH 1325 - Introduction to Composition Studies
- MUTH 3350 - Form and Analysis
- MUTH 4300 - Analysis of Contemporary Music
- MUTH 4310 - Introduction to Electro-Acoustic Music
- MUTH 5360 - Advanced Orchestration
- MUTH 5370 - Survey of Counterpoint

Composition Lessons, Seminar (14 Credit Hours)

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Instrumental or Vocal Studies (4 Credit Hours)
Private Studies 3200 or 3100 (two to four terms, as needed)

Senior Recital (2 Credit Hours)
- MURE 4201 - Senior Recital

Conducting (2 Credit Hours)
- MUCO 3208 - Fundamentals of Choral Conducting
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting

Large Ensemble (2 Credit Hours)
Choose from the following:
- PERE 5113 - Meadows Chorale
- PERE 5114 - Meadows Chamber Singers
- PERE 5116 - Concordia
- PERE 5118 - Meadows Large Instrumental Ensemble

Additional Ensemble (PERE) (6 Credit Hours)

Music/AMAE Electives (7 Credit Hours)

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 81 Credit Hours

Music Education, B.M.
The Bachelor of Music in Music Education with Teacher Certification prepares undergraduates for teaching careers in early childhood through 12th grade music programs. This program combines conservatory-level music experiences, research-proven teaching methodologies, and a strong liberal arts education with practical experiences in public schools to develop leaders in the field of music education. This degree can be completed in four years.

After the completion of 60 hours of coursework, including the music theory sequence, music education students must successfully undergo an upper-division review before enrolling in upper-division coursework. Prior to student-teaching certification, students must complete 45 clock hours of field experience in early childhood through grade 12 schools.

Students should arrange to take both portions of the state-mandated Texas Higher Education Assessment before their student-teaching term. Registration for the TExES Pedagogy and Professional Responsibilities Test requires approval of the Department of Teaching and Learning of the Annette Caldwell Simmons School of Education and Human Development. Students are not eligible to apply for state certification until successful completion of the TExES examination, all degree requirements and student-teaching hours.

Student teaching, in addition to being subject to the eligibility requirements published by the Department of Teaching and Learning, must be approved by the Music Education Department and must follow successful completion of all methods (MUED) and techniques (MUAS) courses. Student teaching is considered a full-time endeavor, with no daytime coursework or concurrent ensemble assignments.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors.

Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Instrumentation and Arranging (3 Credit Hours)

- MUTH 5330 - Instrumentation and Arranging

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Conducting (4 Credit Hours)

- MUCO 3208 - Fundamentals of Choral Conducting (vocal)
- MUCO 3210 - Secondary Choral Practicum (vocal)
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting (instrumental)
- MUCO 3211 - Secondary Instrumental Practicum (instrumental)

Core Music Education (16 Credit Hours)

- MUAS 2149 - Introduction to Music Education
- MUAS 5152 - Percussion Techniques
- MUED 2250 - Foundations of Music Teaching
- MUED 3330 - Elementary Music Methods and Materials
- EDU 2350 - Educational Psychology
- EDU 5327 - Integrating Teaching and Learning

- EDU 5349 - Learning Environment and Professionalism: EC-12

Private Instrumental or Vocal Studies (14 Credit Hours)

PERE Large Ensemble (7 Credit Hours)
Each term of residence.

PERE Chamber Ensemble (1 Credit Hour)
Keyboard principals may substitute MUAC 2101 or MUAC 2102; vocalists may substitute large ensemble.

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

For Instrumental (11-12 Credit Hours)
- MUAS 5146 - Upper String Techniques
- MUAS 5147 - Lower String Techniques
- MUAS 5148 - Single Reed and Flute Techniques
- MUAS 5149 - Double Reed Techniques
- MUAS 5150 - Low Brass Techniques
- MUAS 5151 - High Brass Techniques
- MUAS 5153 - Vocal Techniques
- MUAS 5154 - Marching Band Techniques (optional for strings)
- MUAS 5155 - Jazz Techniques
- MUED 3331 - Instrumental Music Methods and Materials

For Vocal or Keyboard (14-15 Credit Hours)
- PERB 2106 - Diction: Italian
- PERB 2108 - Diction: English
- PERB 2107 - Diction: German
- PERB 2209 - Diction: French
- MPED 5216 - Vocal Pedagogy I (keyboard may substitute MUAS 5153)

- MUAS 5146 - Upper String Techniques
  or
- MUAS 5147 - Lower String Techniques

- MUAS 5148 - Single Reed and Flute Techniques
  or
- MUAS 5149 - Double Reed Techniques

- MUAS 5150 - Low Brass Techniques
  or
- MUAS 5151 - High Brass Techniques

- MUAS 4230 - Elementary Music Practicum
- MUED 3332 - Choral Music Methods and Materials

Total for the Instrumental Major Only: 82-83 Credit Hours

Total for the Vocal or Keyboard Major Only: 85-86 Credit Hours

*Additional Requirements for Teacher Certification (6 Credit Hours)

Student Teaching

Select any two with adviser approval

- EDU 5363 - Student Teaching
- EDU 5364 - Student Teaching
- EDU 5373 - Secondary Student Teaching
- EDU 5374 - Secondary Student Teaching
- Successful completion of the state TExES exam

Music Performance: Brass and Woodwind Instruments, B.M. (majors in bassoon, clarinet, euphonium, flute, French horn, oboe, saxophone, trombone, trumpet, or tuba performance)

The Bachelor of Music in Performance prepares undergraduates for a performance career and for private studio teaching. This program of study provides a balanced performance curriculum of solo/chamber repertoire and orchestral excerpts together with performance in chamber and large ensembles throughout the four-year degree.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I

- PERB 1234 - Advanced Class Piano II

Recital (2 Credit Hours)
- MURE 3101 - Junior Recital
- MURE 4101 - Senior Recital

Conducting (2 Credit Hours)
- MUCO 3209 - Fundamentals of Instrumental Conducting

Large Ensemble (8 Credit Hours)
- PERE 5118 - Meadows Large Instrumental Ensemble (each term of residence)

Chamber Ensemble (3 Credit Hours)
- PERE 5171 - Chamber Ensemble (three terms)

Pedagogy (3 Credit Hours)
- MPED 4305 - Introduction to Instrumental Pedagogy

MUTH Electives (6 Credit Hours)
At the 3000 level or above

MUHI Elective (3 Credit Hours)
At the 4000 level or above

Private Instrumental Studies 3200 (16 Credit Hours)
Eight terms

Repertoire (4 Credit Hours)
- MREP 5140 - Orchestral Repertoire: Woodwinds (4 credit hours)
  or
- MREP 5150 - Orchestral Repertoire: Brass (4 credit hours; except for euphonium performance majors)

Music/AMAE Electives (13 Credit Hours)

Community Experience (1 Credit Hours)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 86 Credit Hours

Music Performance: Guitar, B.M.

The Bachelor of Music in Guitar Performance prepares guitarists to enter the world of professional music with the highest possible skill levels as soloists, teachers, and ensemble musicians. All areas of musicianship and guitar technique are studied in depth. Emphasis is given to repertoire development, pedagogy, and the history of the instrument. Students receive an unusual amount of individual attention in order to optimize their learning experience at SMU.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Study (16 Credit Hours)

- GUIT 3200 - Private Study: Guitar (eight terms)

Recital (3 Credit Hours)

- MURE 3101 - Junior Recital
- MURE 4201 - Senior Recital

Conducting (2 Credit Hours)

- MUCO 3208 - Fundamentals of Choral Conducting
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting

Guitar Ensemble (8 Credit Hours)

- PERE 5130 - Meadows Guitar Ensemble (each term of residence)

Pedagogy (3 Credit Hours)

- MPED 4303 - Guitar Pedagogy

Repertoire (2 Credit Hours)

- MREP 5130 - Guitar Repertoire (two terms)

MUTH Electives (6 Credit Hours)
At the 3000 level or above

MUHI Elective (3 Credit Hours)
At the 4000 level or above

PERE Large Ensemble (4 Credit Hours)

Music/AMAE Electives (11 Credit Hours)

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 84 Credit Hours

Music Performance: Organ, B.M.
The Meadows School of the Arts has a tradition of excellence in organ performance and has been an inspirational environment for many organists from around the world in the past six decades. The Bachelor of Music in Organ Performance prepares students for a professional career in performance, pedagogy, and church music.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
Core Courses
- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)
- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)
- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)
- PERB 1233 - Advanced Class Piano I

- PERB 1234 - Advanced Class Piano II

Private Study (16 Credit Hours)
- ORG 3200 - Private Study: Organ (eight terms)

Recital (3 Credit Hours)
- MURE 3101 - Junior Recital
- MURE 4201 - Senior Recital

Conducting (2 Credit Hours)
- MUCO 3208 - Fundamentals of Choral Conducting
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting

Pedagogy (1 Credit Hours)
- MPED 5114 - Organ Pedagogy

Accompanying (2 Credit Hours)
- MUAC 2101 - Techniques of Vocal Accompanying
- MUAC 2102 - Techniques of Instrumental Accompanying

MUTH Electives (6 Credit Hours)
At the 3000 level or above

MUHI Elective (3 Credit Hours)
At the 4000 level or above

PERE Large Ensemble (6 Credit Hours)

PERE Chamber Ensemble (1 Credit Hour)

Music/AMAE Electives (10 Credit Hours)

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 76 Credit Hours

Music Performance: Percussion, B.M.
The Bachelor of Music in Performance prepares undergraduates for a performance career and for private studio teaching. This program of study provides a balanced performance curriculum of solo/chamber repertoire and orchestral excerpts, together with performance in chamber and large ensembles throughout the four-year degree.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Study (20 Credit Hours)

- PERC 3100/PERC 3200 - Private Study: Percussion (eight terms)

Repertoire (4 Credit Hours)

- MREP 5170 - Orchestral Repertoire: Percussion (4 credit hours)

Recital (2 Credit Hours)

- MURE 3101 - Junior Recital
- MURE 4101 - Senior Recital

Conducting (2 Credit Hours)

- MUCO 3209 - Fundamentals of Instrumental Conducting

Large Ensemble (8 Credit Hours)

- PERE 5118 - Meadows Large Instrumental Ensemble (each term of residence)

Percussion Ensemble (3 Credit Hours)

- PERE 5173 - Meadows Percussion Ensemble (three terms)

Pedagogy (3 Credit Hours)

- MPED 4305 - Introduction to Instrumental Pedagogy

MUTH Electives (6 Credit Hours)

At the 3000 level or above

MUHI Elective (3 Credit Hours)

At the 4000 level or above

Music/AMAE Electives (9 Credit Hours)

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 86 Credit Hours

Music Performance: Piano, B.M.

The Bachelor of Music in Piano Performance prepares well-educated, creative, and professionally-skilled pianists who are able to compete successfully for entry-level employment or further studies and contribute to cultural life as artists, educators, and advocates in a rapidly changing world.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Study (16 Credit Hours)

- PIAN 3200 - Private Study: Piano (eight terms)

Recital (2 Credit Hours)

- MURE 3101 - Junior Recital
- MURE 4101 - Senior Recital

Conducting (2 Credit Hours)

- MUCO 3208 - Fundamentals of Choral Conducting
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting

Accompanying (5 Credit Hours)

- MUAC 2101 - Techniques of Vocal Accompanying
- MUAC 2102 - Techniques of Instrumental Accompanying
- MUAC 3100 - Practicum in Collaborative Performance (three terms)

Pedagogy (8 Credit Hours)

- MUPD 4125 - Piano Pedagogy Practicum
- MUPD 4126 - Piano Pedagogy Practicum
- MUPD 4396 - Fundamentals of Piano Pedagogy I
- MUPD 4397 - Fundamentals of Piano Pedagogy II

Repertoire (2 Credit Hours)

- MREP 4114 - Piano Repertoire (two terms)

Sight Reading (2 Credit Hours)

- PERB 1105 - Sight Reading for Pianists (two terms)

MUTH Electives (6 Credit Hours)

At the 3000 level or above

MUHI Elective (3 Credit Hours)

At the 4000 level or above

PERE Large Ensemble (3 Credit Hours)

PERE Chamber Ensemble (2 Credit Hours)

Music/AMAE Electives (5 Credit Hours)

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 82 Credit Hours

Music Performance: Strings, B.M. (majors in cello, double bass, harp, viola, or violin performance)

The Bachelor of Music in String Performance prepares well-educated, creative, and professionally-skilled musicians who are able to compete successfully for entry-level employment or further studies and contribute to cultural life as artists, educators, and advocates in a rapidly changing world.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Instrumental Studies (16 Credit Hours)

Eight terms

Recital (3 Credit Hours)

- MURE 3101 - Junior Recital
- MURE 4201 - Senior Recital

Conducting (2 Credit Hours)

- MUCO 3209 - Fundamentals of Instrumental Conducting

Large Ensemble (8 Credit Hours)

- PERE 5118 - Meadows Large Instrumental Ensemble

Chamber Ensemble (3 Credit Hours)

- PERE 5171 - Chamber Ensemble (three terms)

Pedagogy (3 Credit Hours)

- MPED 4305 - Introduction to Instrumental Pedagogy
  or
- MPED 4308 - String Pedagogy I

Repertoire (2 Credit Hours)

- MREP 5160 - Orchestral Repertoire: Strings (two terms)

MUTH Electives (6 Credit Hours)

At the 3000 level or above

MUHI Elective (3 Credit Hours)

At the 4000 level or above

Music/AMAE Electives (11 Credit Hours)

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 83 Credit Hours

Music Performance: Voice, B.M.

The Bachelor of Music in Voice Performance prepares well-rounded singers who will be both technically proficient and artistically expressive with a broad understanding of solo and ensemble styles in areas including opera, art song, musical theatre, jazz, and choral music. Students will learn to discover and create their individual voices in the pursuit of a career in the vocal arts.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I

- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Study (16 Credit Hours)

- VOIC 3200 - Private Study: Voice (eight terms)

Recital (3 Credit Hours)

- MURE 3101 - Junior Recital
- MURE 4201 - Senior Recital

Conducting (2 Credit Hours)

- MUCO 3208 - Fundamentals of Choral Conducting

Ensemble (8 Credit Hours)

- PERE 5113 - Meadows Chorale (each term of residence)
  or
- PERE 5114 - Meadows Chamber Singers (each term of residence)
  or
- PERE 5116 - Concordia (each term of residence)

Lyric Theatre (7 Credit Hours)

- PERB 5119 - Music Theatre Workshop (three credit hours)
- PERE 5122 - Meadows Lyric Theatre (four credit hours)

Pedagogy (4 Credit Hours)

- MPED 5216 - Vocal Pedagogy I
- MPED 5217 - Vocal Pedagogy II

Diction (5 Credit Hours)

- PERB 2106 - Diction: Italian
- PERB 2107 - Diction: German
- PERB 2108 - Diction: English

- PERB 2209 - Diction: French

Vocal Coaching (4 Credit Hours)
- VOIC 4118 - Vocal Coaching (four terms)

MUTH Elective (3 Credit Hours)
At the 3000 level or above

MUHI Elective (3 Credit Hours)
At the 4000 level or above

Music/AMAE Electives (5 Credit Hours)

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 86 Credit Hours

Music Therapy, B.M.
The Bachelor of Music in Music Therapy uses an interdisciplinary approach to develop knowledge in music theory, history, and performance while providing focused training in music therapy, research and psychology.

The degree is approved by the American Music Therapy Association. Successful completion of this program entitles the graduate to take the national board examination in music therapy administered by the Certification Board for Music Therapists. The official designation by the board is MT-BC, the nationally accepted credential of qualified music therapists.

Before enrolling for internship MUTY 4246, the student must meet the following conditions:
1. Completed all course, practicum and preclinical work.
2. Demonstrated good physical health and emotional stability.
3. Achieved functional competency on piano, guitar, percussion and voice.
4. Achieved a cumulative GPA of 2.500 and a 2.750 in all music therapy courses.

Students completing this program of study may add a minor in psychology with nine additional psychology credits. The following, by adviser approval, fulfill large ensemble requirements for music therapy majors:
- Wind and percussion students are required to enroll in the Meadows Large Ensemble (Meadows Symphony Orchestra or Meadows Wind Ensemble).
- Voice students must enroll in a choral ensemble.
- String students must enroll in Meadows Large Ensemble (Meadows Symphony Orchestra).
- Piano and guitar students must enroll in Meadows Jazz Orchestra or in one of the other ensembles listed above.

SMU Degree Requirements
An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major
Core Courses
- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of 1st year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Class Piano (4 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
- PERB 2131 - Class Piano III
- PERB 2132 - Class Piano IV
  or
- PERB 1233 - Advanced Class Piano I
- PERB 1234 - Advanced Class Piano II

Private Instrumental or Vocal Studies 3200 or 3100 (10 Credit Hours)

Conducting (2 Credit Hours)

- MUCO 3208 - Fundamentals of Choral Conducting
  or
- MUCO 3209 - Fundamentals of Instrumental Conducting

PERE Large Ensemble (2 Credit Hours)

Two terms

PERE Other Ensemble(s) (3 Credit Hours)

Three terms

Techniques (4 Credit Hours)

- PERB 1103 - Modern Acoustic Guitar I
- PERB 1104 - Modern Acoustic Guitar II

- PERB 2113 - Hand Drumming and Ethnic Percussion I
  or
- MUAS 5152 - Percussion Techniques

- MUAS 5153 - Vocal Techniques

Music Therapy (23 Credit Hours)

- MUTY 1120 - Clinical Orientation

- MUTY 1320 - Introduction to Music Therapy
- MUTY 3141 - Developmental Music Therapy Practicum I
- MUTY 3142 - Psychiatric Music Therapy Practicum II
- MUTY 3143 - Medical Music Therapy Practicum III
- MUTY 3144 - Gerontological Practicum IV
- MUTY 3211 - Developmental Music Therapy
- MUTY 3212 - Psychiatric Music Therapy
- MUTY 3213 - Medical Music Therapy
- MUTY 3214 - Gerontological Music Therapy
- MUTY 4141 - Music Therapy Practicum V
- MUTY 4340 - Research Methods and Materials in Music Therapy
- MUTY 4341 - Survey of Music Psychology

Music Therapy Internship (2 Credit Hours)

- MUTY 4246 - Music Therapy Internship

Required Course Work outside Music Division (12-13 Credit Hours)

Choose from the following:

- APSM 2441 - Human Anatomy and Physiology I with Laboratory
  or
- APSM 2442 - Human Anatomy and Physiology II with Laboratory
  or
- BIOL 1300 - Introductory Biology
  or
- BIOL 1301 - Introductory Biology

- PSYC 1300 - Introduction to Psychology
- PSYC 2351 - Psychopathology
- PSYC elective

Music/AMAE Electives (11 Credit Hours)

May include MURE 3101 optional recital.

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 95 - 96 Credit Hours

Note: Students with a concentration in voice, percussion or guitar must substitute music electives for the corresponding technique class.

Music, B.A.

The bachelor of arts degree in music is intended to serve students combining a music degree with interests in one or more of the following:

- A broad liberal arts education.
- Exploration of the interdisciplinary relationship of music coursework to coursework in other areas of the Meadows School and the University as a whole.
- An additional major, a minor or preparation for medical school or law school.
- Preparation for graduate study in music.
- Participation in the SMU Honors Program.
- A term or summer of study abroad.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses

- MUAS 1020 - Music Pathways: Exploring Meadows and Your Future (one enrollment fall term of first year)
- MUAS 1010 - Music Engagement (each term of residence except fall term of 1st year)

Musicianship and Introductory Music Theory (12 Credit Hours)

- MUTH 1129 - Musicianship I
- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II
- MUTH 2129 - Musicianship III
- MUTH 2130 - Musicianship IV
- MUTH 2229 - Music Theory III
- MUTH 2230 - Music Theory IV

Musicology (9 Credit Hours)

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II

Music Theory Elective or Musicology Elective (3 Credit Hours)

- MUTH Elective (3000 level or above)
  or
- MUHI Elective (4000 level)

Class Piano (2 Credit Hours)

- PERB 1131 - Class Piano I
- PERB 1132 - Class Piano II
  or
- PERB 1233 - Advanced Class Piano I

Private Instrumental, Vocal, or Composition Studies (6 Credit Hours)

Private Studies 3200 or 3100, or composition in combination with private studies

PERE Large Ensemble (4 Enrollments)

PERE Chamber Ensemble (1 Enrollment)

Music/AMAE Electives (12 Credit Hours)

Vocalists are required to take two diction courses from among PERB 2106, PERB 2107, PERB 2108, and PERB 2209, and need only take 10 hours Music/AMAE electives

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 50 Credit Hours

Music Industry Practices Minor

Requirements for the Minor

The minor in music industry practices provides students with the artistic, intellectual, business, and practical skills needed to function as professionals and leaders in the music industry. With state-of-the-art technology and highly skilled faculty, students engage in hands-on learning that will enable them to think clearly, communicate well, and make sound business decisions in a rapidly changing environment.

A minimum grade of *C*- is required in all courses specified in the minor. Students must retake courses in which a grade below *C*- is received. A course may be repeated only once.

Core Courses (11 Credit Hours)

- MUAS 3200 - Introduction to Digital Audio Workstations
- MUAS 5320 - Recording Technology
- MUAS 5322 - Analysis of Music Production
- MUAS 5323 - Music Production Practices

Elective Courses (6 Credit Hours)

Choose from the following:

- Any AMAE course (3 hours)
- CRCP 1330 - Sound and Code
- MUTH 3117 - Songwriting Laboratory
- MUTH 3217 - Songwriting
- MUTH 4311 - Advanced Topics in Music Technology
- MUTH 4186 - Directed Studies in Music Industry Practices
- MUTH 4286 - Directed Studies in Music Industry Practices
- MUTH 4386 - Directed Studies in Music Industry Practices

Total: 17 Credit Hours

Music Minor

The minor in music is designed to meet one of the following objectives:

1. A course of study in music with sufficient breadth and depth to satisfy the artistic aspiration of students from any major who have some background and experience in music, or
2. An alternative to the rigorous course of study required for the major in music for those students who do not aspire to a musical career.

Acceptance criteria for the minor include a successful audition or composition portfolio review and a theory/aural skills assessment prior to enrollment in private lessons or the theory sequence. The ability to read music is required. Musicianship (MUTH 1129, MUTH 1130) must be taken concurrently with the corresponding offering of music theory (MUTH 1229, MUTH 1230). In any given term, private study will be approved only if the student is enrolled for at least one other course (not including MUAS 1010) required for the minor. Approval is required for private study beyond four credits. Ensemble participation is encouraged.

A minimum grade of *C*- is required in all courses specified in the minor. Students must retake courses in which a grade below *C*- is received. A course may be repeated only once.

Requirements for the Minor

- MUTH 1129 - Musicianship I

- MUTH 1130 - Musicianship II
- MUTH 1229 - Music Theory I
- MUTH 1230 - Music Theory II

- MUHI 1302 - Introduction to Music in World Societies
  or
- MUHI 1303 - Introduction to Music in History and Culture

- MUHI 3301 - Survey of Music History I
- MUHI 3302 - Survey of Music History II
- Private Study (in instrument, voice or composition; typically 1 credit hour per term; minimum 4 credit hours)
- MUAS 1010 - Music Engagement (required every semester in which music courses are taken)

Total: 19 Credit Hours

Songwriting Minor

The minor in songwriting is available to majors in all disciplines at SMU who are interested in developing basic skills as composers, lyricists and/or recording artists. The program allows students to pursue a lyric, music or production emphasis within the field of songwriting. The plan includes a repeatable class in which songs are written, produced, performed and recorded.

A minimum grade of *C-* is required in all courses specified in the minor. Students must retake courses in which a grade below *C-* is received. A course may be repeated only once.

Requirements for the Minor

Core Courses (13 Credit Hours)

- ENGL 2390 - Introduction to Creative Writing
- MUTH 1301 - Music Fundamentals (music majors and minors substitute MUTH 1129, MUTH 1229)
- MUTH 3117 - Songwriting Laboratory (two terms)
- MUTH 3217 - Songwriting
- MUAS 5322 - Analysis of Music Production

Two from the following: (5-6 Credit Hours)

- AMAE 4321 - Law and the Arts
- MUAS 3200 - Introduction to Digital Audio Workstations
- MUAS 5320 - Recording Technology
- MUAS 5323 - Music Production Practices
- MUHI 1339 - Music for Contemporary Audiences
- MUHI 1340 - Jazz: Tradition and Transformation
- MUTH 4310 - Introduction to Electro-Acoustic Music

Total: 18-19 Credit Hours

Music Courses

Bassoon

BSSN 3100 - Private Study: Bassoon

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in

performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

BSSN 3200 - Private Study: Bassoon
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Cello

CELL 3100 - Private Study: Cello
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

CELL 3200 - Private Study: Cello
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Clarinet

CLAR 3100 - Private Study: Clarinet
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

CLAR 3200 - Private Study: Clarinet
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Double Bass

DBBS 3100 - Private Study: Double Bass
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

DBBS 3200 - Private Study: Double Bass
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Euphonium

EUPH 3100 - Private Study: Euphonium
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term. Reserved for both graduate and undergraduate Music pre-majors, majors, and minors.

EUPH 3200 - Private Study: Euphonium
Credits: 2
One-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term. Reserved for both graduate and undergraduate Music pre-majors, majors, and minors.

Flute

FLUT 3100 - Private Study: Flute
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

FLUT 3200 - Private Study: Flute
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

French Horn

FRHN 3100 - Private Study: French Horn
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

FRHN 3200 - Private Study: French Horn
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until

degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Guitar

GUIT 3100 - Private Study: Guitar

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

GUIT 3200 - Private Study: Guitar

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Harp

HARP 3100 - Private Study: Harp

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

HARP 3200 - Private Study: Harp

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Harpsichord

HARS 3100 - Private Study: Harpsichord

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

HARS 3200 - Private Study: Harpsichord

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Oboe

OBOE 3100 - Private Study: Oboe

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

OBOE 3200 - Private Study: Oboe

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Organ

ORG 3100 - Private Study: Organ

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

ORG 3200 - Private Study: Organ

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

ORG 4105 - Liturgical Organ Playing and Organ Improvisation

Credits: 1

Focuses on keyboard harmony, general and advanced hymn-playing skills, Baroque counterpoint, Anglican service playing, conducting from the console, and advanced improvisation.

ORG 4205 - Liturgical Organ Playing and Organ Improvisation

Credits: 2

Focuses on keyboard harmony, general and advanced hymn-playing skills, Baroque counterpoint, Anglican service playing, conducting from the console, and advanced improvisation.

Percussion

PERC 3100 - Private Study: Percussion

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

PERC 3200 - Private Study: Percussion

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable

course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Piano

PIAN 3100 - Private Study: Piano
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

PIAN 3200 - Private Study: Piano
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Saxophone

SAX 3100 - Private Study: Saxophone
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

SAX 3200 - Private Study: Saxophone
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Trombone

TROM 3100 - Private Study: Trombone
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

TROM 3200 - Private Study: Trombone
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Trumpet

TRPT 3100 - Private Study: Trumpet

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

TRPT 3200 - Private Study: Trumpet

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Tuba

TUBA 3100 - Private Study: Tuba

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

TUBA 3200 - Private Study: Tuba

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Violin

VIOL 3100 - Private Study: Violin

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

VIOL 3200 - Private Study: Violin

Credits: 2

One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Viola

VLA 3100 - Private Study: Viola

Credits: 1

One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in

performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

VLA 3200 - Private Study: Viola
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Music Pedagogy

MPED 4184 - Directed Study: Pedagogy
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MPED 4284 - Directed Study: Pedagogy
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MPED 4303 - Guitar Pedagogy
Credits: 3
(spring term of even–numbered years) Prepares guitarists for studio teaching.

MPED 4305 - Introduction to Instrumental Pedagogy
Credits: 3
Prepares instrumental private teachers for studio teaching.

MPED 4308 - String Pedagogy I
Credits: 3
A survey of methods, materials, and curriculum for teaching strings at the beginning level, with a focus on the philosophical, psychological, and developmental bases of string study. Topics include review and evaluation of current educational materials, current trends, the history of string education, and pedagogical situations. Prerequisite: Proficiency on a string instrument as a major, MUAS 3146 and MUAS 3147 or equivalents, or permission of instructor.

MPED 4309 - String Pedagogy II
Credits: 3
A survey of methods, materials, and curriculum for teaching strings at the beginning level, with a focus on the philosophical, psychological, and developmental bases of string study. Topics include review and evaluation of current educational materials, current trends, the history of string education, and pedagogical situations. Prerequisite: Proficiency on a string instrument as a major, MPED 4308 or equivalent, or permission of instructor.

MPED 4384 - Directed Study: Pedagogy
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MPED 5114 - Organ Pedagogy
Credits: 1
A survey of teaching materials and pedagogical methods, both historical and modern, for organ students. Projects include compilation of graded repertoire lists and preparation and/or presentation of a supervised private lesson.

MPED 5216 - Vocal Pedagogy I
Credits: 2
A study of vocal techniques, including vocal acoustics, breathing, and laryngeal function. Provides information useful to the singer, studio voice teacher, and choral director. Prerequisite: Permission of instructor.

MPED 5217 - Vocal Pedagogy II
Credits: 2
A study of teaching strategies and philosophies, diagnosis of vocal problems, stage deportment, vocal repertoire, and ethics for teachers. Students gain practical, supervised experience in teaching.

Music Repertoire

MREP 4114 - Piano Repertoire
Credits: 1
A broad survey of piano literature, including lectures and performances by the students enrolled. Performance styles and practices of every historical period are emphasized.

MREP 4122 - Organ Repertory and History of Organ Building: Middle Ages to J.S. Bach
Credits: 1
Examines the wealth of the organ repertory in combination with aspects of the different styles in organ building from the Middle Ages to J.S. Bach. The historical contexts of individual compositions, analytical aspects and performance-related issues are discussed. An optional integrated Organ Study Tour (8-12 days) to varying destinations in Europe and the United States is integrated into the course.

MREP 4222 - Organ Repertory and History of Organ Building: Middle Ages to J.S. Bach
Credits: 2
Examines the wealth of the organ repertory in combination with aspects of the different styles in organ building from J.S. Bach to the present. The historical contexts of individual compositions, analytical aspects, and performance-related issues are discussed. An optional integrated Organ Study Tour (8-12 days) to varying destinations in Europe and the United States is integrated into the course.

MREP 5109 - Classical and Romantic Song Literature
Credits: 1
(spring term of odd-numbered years) An overview of song literature from the Classical and Romantic periods. Students prepare repertoire for performance in class and make presentations on topics of specialized interest. Lectures focus on specific developmental trends such as the genesis of the song cycle, the evolution of the piano accompaniment in the 19th century, and links between poets and composers.

MREP 5110 - Contemporary Song Literature
Credits: 1
(spring term of even-numbered years) A survey of repertoire and performance practices of song literature from the 20th century to the present day. Provides students with a general knowledge of the literature to acquaint them with performance and notational practices, and to develop the musical skills necessary to perform this literature.

MREP 5112 - Sacred Masterpieces for Singers
Credits: 1
An overview for singers of the great masses and oratorios of the 18th and 19th centuries, with an emphasis on performance. Baroque, Classical, and Romantic styles are taught through the study and performance of arias and ensembles from these works. Students are coached by the instructor, and they perform for the class. Open to junior,

senior, and graduate voice majors, as well as singers in the Perkins' Master of Sacred Music program, or by instructor permission.

MREP 5130 - Guitar Repertoire
Credits: 1
Student performances of their solo repertoire and individual instruction in a master-class setting.

MREP 5140 - Orchestral Repertoire: Woodwinds
Credits: 1
Interpretive study and performance preparation of significant excerpts from selected orchestral repertoire.

MREP 5150 - Orchestral Repertoire: Brass
Credits: 1
Interpretive study and performance preparation of significant excerpts from selected orchestral repertoire.

MREP 5160 - Orchestral Repertoire: Strings
Credits: 1
Interpretive study and performance preparation of significant excerpts from selected orchestral repertoire.

MREP 5170 - Orchestral Repertoire: Percussion
Credits: 1
Interpretive study and performance preparation of significant excerpts from selected orchestral repertoire.

Accompanying

MUAC 2101 - Techniques of Vocal Accompanying
Credits: 1
A course designed for pianists to acquaint them with the various skills associated with accompanying and to familiarize them with some of the vocal repertoire.

MUAC 2102 - Techniques of Instrumental Accompanying
Credits: 1
A course designed for pianists to acquaint them with the various skills associated with accompanying and to familiarize them with some of the instrumental repertoire.

MUAC 3100 - Practicum in Collaborative Performance
Credits: 1
Practical application of collaborative performance skills through studio assignments and performance. Prerequisites: MUAC 2101, MUAC 2102.

Music Arts and Skills

MUAS 1010 - Music Engagement
Credits: 0
Registration in this course supports the activities of the Music Division. Students are encouraged to take advantage of the opportunities for performance, master classes, and community engagement. Students may also be called upon to serve as ambassadors of the division for prospective students. Required of all music majors and minors each term in residence.

MUAS 1020 - Music Pathways: Exploring Meadows and Your Future
Credits: 0
Required orientation for all first-year music majors. Provides valuable information about college life and professional opportunities in music.

MUAS 2149 - Introduction to Music Education
Credits: 1
A broad-based survey of the issues, aims, and opportunities in music education programs of all levels, with an introduction to music education philosophies and methodologies.

MUAS 3184 - Internship in Music
Credits: 1
Internship credit for practical off-campus work in the music industry or with a professional music organization. Specific learning outcomes, measures, and activities are stated in an individualized syllabus. Students are limited to a total of 3 credit hours for internships and practica. Departmental permission required.

MUAS 3200 - Introduction to Digital Audio Workstations
Credits: 2
Presents the concepts of recording and mixing music and audio using computer-based Digital Audio Workstations (DAWs). Course topics include, but are not limited to, digital audio basics, mixing techniques, software-based audio effects processors, and MIDI recording using virtual instruments.

MUAS 3284 - Internship in Music
Credits: 2
Internship credit for practical off-campus work in the music industry or with a professional music organization. Specific learning outcomes, measures, and activities are stated in an individualized syllabus. Students are limited to a total of 3 credit hours for internships and practica. Departmental permission required.

MUAS 3384 - Internship in Music
Credits: 3
Internship credit for practical off-campus work in the music industry or with a professional music organization. Specific learning outcomes, measures, and activities are stated in an individualized syllabus. Students are limited to a total of 3 credit hours for internships and practica. Departmental permission required.

MUAS 4230 - Elementary Music Practicum
Credits: 2
Focuses on crafting and teaching short lessons for peers in the college classroom and for area public school classrooms. Video camera is used extensively for accurate feedback. Prerequisite: MUED 3330.

MUAS 5145 - Overview of Piano Technology
Credits: 1
An overview of the history and development of the piano, grand and upright construction and regulation, tuning, temperament, and relationships with technicians and retailers. Hands-on instruction in tuning techniques includes unison and octave tuning.

MUAS 5146 - Upper String Techniques
Credits: 1
Basic principles involved in playing and teaching violin and viola. Reserved for music majors and minors.

MUAS 5147 - Lower String Techniques
Credits: 1
Basic principles involved in playing and teaching cello and bass. Reserved for music majors and minors.

MUAS 5148 - Single Reed and Flute Techniques
Credits: 1
Basic principles involved in playing and teaching single reed and flute instruments. Reserved for music majors and minors.

MUAS 5149 - Double Reed Techniques
Credits: 1
Basic principles involved in playing and teaching double reed instruments. Reserved for music majors and minors.

MUAS 5150 - Low Brass Techniques
Credits: 1
Basic principles involved in playing and teaching low brass. Reserved for music majors and minors.

MUAS 5151 - High Brass Techniques
Credits: 1
Basic principles involved in playing and teaching upper brass. Reserved for music majors and minors.

MUAS 5152 - Percussion Techniques
Credits: 1
Basic principles involved in playing and teaching percussion. Reserved for music majors and minors.

MUAS 5153 - Vocal Techniques
Credits: 1
Basic principles involved in singing and teaching voice. Reserved for music majors and minors.

MUAS 5154 - Marching Band Techniques
Credits: 1
(fall term of even-numbered years) Provides music education students with opportunities to learn skills and techniques involved in marching band.

MUAS 5155 - Jazz Techniques
Credits: 1
(fall term of even-numbered years) Introduces jazz pedagogy, with an emphasis on improv.

MUAS 5320 - Recording Technology
Credits: 3
A comparison of approaches to music recording in all forms of mass media. Includes demonstrations of studio equipment and digital recording and editing.

MUAS 5322 - Analysis of Music Production
Credits: 3
Students gain a basic yet broad understanding of the function of a music producer in both artistic and music business environments, and of the process through which any musical work is produced as a live performance or recording. The role of the music producer is concentric to all decisions in recording and defining artistic endeavors. Whether working with a director in producing music for a film score, collaborating with a songwriter to define an expression, working with a composer to achieve an artistic vision, or understanding how an advertising agency needs musical help in order to sell a product, the producer must be able to coordinate the procedure with the vision. Even when the producer is also the artist, composer, recording engineer, and financier, he/she must step outside of all other roles to plan how the end result can best be achieved.

MUAS 5323 - Music Production Practices
Credits: 3
Students create recording projects in a wide range of areas, including artist recordings in a variety of musical genres, film scoring, and TV/Radio commercials. Prerequisite: MUAS 5322.

Conducting

MUCO 3208 - Fundamentals of Choral Conducting
Credits: 2
Includes all basic beat patterns, subdivision, fermata problems, beat character, and an introduction to left-hand usage and basic score reading, with emphasis on the psychophysical relationship between conductor and ensemble.

MUCO 3209 - Fundamentals of Instrumental Conducting
Credits: 2
Includes basic conducting technique, score reading, score analysis, and general rehearsal procedures, with attention given to rehearsal techniques in a laboratory setting.

MUCO 3210 - Secondary Choral Practicum
Credits: 2
Stresses development of rehearsal techniques in a laboratory setting. Students choose, prepare, and rehearse music with other students in class to develop skills in error detection, rehearsal pacing, sequencing, and ordering of music for optimum rehearsals. Prerequisite: MUCO 3208 or equivalent.

MUCO 3211 - Secondary Instrumental Practicum
Credits: 2
Stresses development of rehearsal techniques in a laboratory setting. Students choose, prepare, and rehearse music with other students in the class to develop skills in error detection, rehearsal pacing, sequencing, and ordering of music for optimal rehearsals. Prerequisite: MUCO 3209.

MUCO 4184 - Directed Study in Conducting
Credits: 1
Individual technical development and score preparation for the advanced conductor. Prerequisite: Approval of instructor.

MUCO 4284 - Directed Study in Conducting
Credits: 2
Individual technical development and score preparation for the advanced conductor. Prerequisite: Approval of instructor.

MUCO 4384 - Directed Study in Conducting
Credits: 3
Individual technical development and score preparation for the advanced conductor. Prerequisite: Approval of instructor.

Music Education

MUED 2250 - Foundations of Music Teaching
Credits: 2
Observation and discussion of teaching methodologies conducted primarily in the public schools. Includes hands-on teaching experiences with supervision by SMU faculty and public school cooperating teachers.

MUED 3330 - Elementary Music Methods and Materials
Credits: 3
An investigation of major approaches for teaching elementary general music. Includes public school classroom observations.

MUED 3331 - Instrumental Music Methods and Materials
Credits: 3
Covers materials for instruction, motivation, administration, class control, and performance preparation.

MUED 3332 - Choral Music Methods and Materials
Credits: 3
Focuses on the art and practice of developing successful choral programs for fifth grade through high school. Topics include recruitment, auditions, behavior management, vocal techniques, the changing voice, choosing music, planning rehearsals, and management of nonmusical details. Includes public school observations.

MUED 4194 - Directed Studies in Music Education
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUED 4294 - Directed Studies in Music Education
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUED 4394 - Directed Studies in Music Education
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUED 5147 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5149 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5150 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5151 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5152 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5153 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5154 - Workshop in Music Education
Credits: 1
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5250 - Workshop in Music Education
Credits: 2
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5251 - Workshop in Music Education
Credits: 2
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5252 - Wind Literature for the Secondary School
Credits: 2
(fall term of odd-numbered years) Survey of new and standard literature suitable for secondary school students. Examines music for instrumental solo, ensemble, band, and orchestra.

MUED 5254 - Workshop in Music Education
Credits: 2
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5255 - Workshop in Music Education
Credits: 2
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5350 - Workshop in Music Education
Credits: 3
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5351 - Workshop in Music Education
Credits: 3
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5352 - Workshop in Music Education
Credits: 3
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

MUED 5354 - Workshop in Music Education
Credits: 3
A brief, intensive study of a focused topic in music education, including Orff, Kodály, Dalcroze, and other methodologies.

Musicology

MUHI 1302 - Introduction to Music in World Societies
Credits: 3
Introduces students to musics from a diverse range of cultures, in addition to themes and issues in contemporary musical research. The first portion of the course provides a general introduction to case studies of music traditions from around the world, highlighting the contexts of music production in cultural and geographic regions. The final portion of the course applies this cultural knowledge in analytical contexts to broader discussions of indigeneity, nationalism, diaspora, traditions, and globalization.

MUHI 1303 - Introduction to Music in History and Culture
Credits: 3
Designed to provide a big-picture overview of music's role in varied historical and cultural contexts; to acquaint students with the central paradigms, methods, and problems of music scholarship; and to provide a critical orientation of some of the major philosophical questions that play a role in subsequent music history coursework at SMU. Questions to be addressed include: What is music? What is its purpose? What does music mean, how does it mean, and how is it able to move the emotions? How is music historically and culturally constituted? How do we study it? Students engage with these and many other questions through intensive reading, listening, and lecture. Examples are drawn liberally from Western art music and popular music.

MUHI 1304 - Global Pop
Credits: 3
Considers the global production and consumption of music and how popular music scenes and markets operate across the world. Studies how popular musics have emerged and the ways in which phenomena including globalization, economics, and new technologies have impacted musicians, musical practices, and identities. No previous musical experience is necessary.

MUHI 1305 - From Cotton Fields to Concert Halls: The African-American Impulse in American Classical Music
Credits: 3
Overview of the contributions of African-American classical composers and concert artists from the American Reconstruction period to the end of the 20th century. Following a timeline of American social and political flashpoints (the Great Migration, the emergence of black colleges and universities, the Civil Rights Movement, black power protests, et. al.), the course explores how the music of black classical artists helped to evolve the American musical landscape.

MUHI 1339 - Music for Contemporary Audiences
Credits: 3
An examination of the interaction of the various forms of popular musical expression (folk, blues, soul, rock, Muzak, and film music) and their impact upon American culture.

MUHI 1340 - Jazz: Tradition and Transformation
Credits: 3
Bunk, Bird, Bix, Bags, and Trane. From blues to bop, street beat to free jazz. A study of the people and music from its African, Euro-American origins through the various art and popular forms of the 20th century.

MUHI 3301 - Survey of Music History I
Credits: 3
Surveys the origins and evolution of musical forms, compositional procedures, performing practices, and musical instruments in the West from the rise of the Christian liturgy through the death of J.S. Bach. Presented within the contexts of related arts and historical events, as time permits. Includes listening, score analysis, and practice in writing about music. Prerequisite: MUHI 1302 or MUHI 1303.

MUHI 3302 - Survey of Music History II
Credits: 3
Surveys musical forms, styles, compositional procedures, and performing practices from the late 18th century to the present day. Presented within the contexts of related arts and historical events, as time permits. Includes listening, score analysis, and practice in writing about music. Prerequisite: MUHI 3301.

MUHI 4192 - Directed Study in Music History
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUHI 4292 - Directed Study in Music History
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUHI 4301 - Research Project in Music History
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUHI 4302 - Seminar in Music History
Credits: 3
Provides advance investigation into a variety of topics in music history, including music aesthetics, the works of a specific composer or compositional school, music within the context of a specific time and/or place, or in-depth studies of works relative to a particular genre. Topics are announced each term. Writing intensive. May be repeated for credit. Prerequisites: MUHI 3301, MUHI 3302.

MUHI 4320 - Organ History/Literature
Credits: 3
A survey of the literature for the organ, Renaissance to contemporary. Required of organ majors and concentrations (undergraduate).

MUHI 4345 - Survey of Opera History
Credits: 3
A chronological survey of opera, beginning with a brief introduction to medieval and Renaissance precedents, followed by an in-depth presentation of selected Baroque and Classical masterworks. Explores the ways 19th-century Romantic opera synthesized music, literature, art, and elements of politics and culture. Also, investigates the musical language and dramatic substance of selected works from 20th-century operatic repertoire. Students spend a significant amount of time viewing operas on video and laser disc, and in certain cases making comparative studies of productions. Offered Fall semester of even-numbered years. Prerequisite: MUHI 3302.

MUHI 4347 - Symphonic Literature
Credits: 3
Examines representative orchestral works from the late Baroque era to the present day. Attention is directed to the forms, compositional procedures, and orchestration devices employed by selected composers who reflect the various stylistic orientations within this time frame. Offered Fall semester of odd-numbered years. Prerequisite: MUHI 3302.

MUHI 4348 - Guitar History/Literature
Credits: 3
(spring term of odd-numbered years) Examines the history of guitar and its music from the early 16th century to the present. Included are the vihuela and Baroque guitar, four-string Spanish guitar, and related literature. Emphasis is

given to the evolution of the modern instrument and its repertoire. Prerequisite: Completion of the music history sequence or permission of division head.

MUHI 4384 - Survey of Choral Literature
Credits: 3
(spring term of even-numbered years) A survey of choral music from the medieval era to the present. Examines representative compositions with regard to genre, form, compositional procedures, and stylistic aspects. Includes sociopolitical conditions, the intellectual and artistic outlooks of patrons and composers, and other external influences. Prerequisite: Completion of the music history sequence or permission of division head.

MUHI 4392 - Directed Study in Music History
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

Piano Pedagogy

MUPD 4125 - Piano Pedagogy Practicum
Credits: 1
Supervised teaching experience; specific goals and projects are agreed upon for the term. Required for all piano majors.

MUPD 4126 - Piano Pedagogy Practicum
Credits: 1
Supervised teaching experience; specific goals and projects are agreed upon for the term. Required for all piano majors.

MUPD 4396 - Fundamentals of Piano Pedagogy I
Credits: 3
(fall term of even-numbered years) In-depth study of methods and curriculum for teaching piano at the elementary level. Students survey and evaluate current educational materials, with a focus on philosophical and physiological bases of piano study.

MUPD 4397 - Fundamentals of Piano Pedagogy II
Credits: 3
(fall term of odd-numbered years) In-depth study of methods, materials, and curriculum for teaching piano at the intermediate and advanced levels. Includes current trends (including technology), professionalism, history of piano pedagogy, and employment opportunities.

MUPD 5196 - Directed Study in Piano Pedagogy
Credits: 1

MUPD 5210 - Current Trends in Piano Pedagogy
Credits: 2
(spring term of even-numbered years) Students explore, through participation and observation, the psychological principles operative in group and class environments, with emphasis on teacher effectiveness. Surveys college-level keyboard texts. Internship required.

MUPD 5312 - Survey of Precollege Piano Literature
Credits: 3
(spring term of odd-numbered years) Survey and performance of standard piano literature in all style periods for precollege students. Emphasis on technical preparation and curriculum-building. Internship required.

Music Private Studies

MUPR 5000 - Music - Private Lesson
Credits: 0
Instrumental or vocal private lessons. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

Recitals

MURE 3101 - Junior Recital
Credits: 1
Solo performance of approximately 30 minutes of music. Graded pass/fail by committee.

MURE 4101 - Senior Recital
Credits: 1
Solo performance of approximately 1 hour of music. Graded pass/fail by committee.

MURE 4201 - Senior Recital
Credits: 2
Solo performance of approximately 1 hour of music. Graded pass/fail by committee.

MURE 5000 - Elective Recital
Credits: 0
Solo or chamber music performance. Does not fulfill degree or diploma recital requirements. Specific guidelines may be found in the Division of Music Handbook.

MURE 5100 - Elective Recital
Credits: 1
Solo or chamber music performance. Does not fulfill degree or diploma recital requirements. Specific guidelines may be found in the Division of Music Handbook.

Music Composition and Theory

MUTH 1129 - Musicianship I
Credits: 1
Beginning studies in solfege, melodic, and harmonic dictation. Corequisite: MUTH 1229.

MUTH 1130 - Musicianship II
Credits: 1
Continuation of MUTH 1129 covering solfege, melodic, and harmonic dictation. Prerequisites: MUTH 1129, MUTH 1229. Corequisite: MUTH 1230.

MUTH 1229 - Music Theory I
Credits: 2
Covers rudiments (notation, clefs, key signatures, intervals, scales, and modes), diatonic and chromatic harmony, figured bass, part–writing, and analysis. Corequisite: MUTH 1129.

MUTH 1230 - Music Theory II
Credits: 2
Continuation of MUTH 1229 covering diatonic and chromatic harmony, figured bass, part-writing, and analysis. Prerequisites: MUTH 1129, MUTH 1229. Corequisite: MUTH 1130.

MUTH 1301 - Music Fundamentals
Credits: 3
Covers the recognition, basic aural realization, and use and writing of the fundamental elements of tonal music,

including pitch, rhythm, meter, chords, scales, key signatures, melody, and harmony. Lecture and discussion, with in-class application through rhythmic reading and singing. Appropriate for all students except music majors.

MUTH 1325 - Introduction to Composition Studies
Credits: 3
Provides a survey of historical and contemporary compositional skills and practices via projects and study of the literature. Also serves as an introduction to the faculty, each of whom directs sessions during the term. Required course during the first term of composition studies prior to private study. Prerequisite: Composition major or instructor consent.

MUTH 2129 - Musicianship III
Credits: 1
Continuation of MUTH 1130 covering solfege, melodic, and harmonic dictation employing chromaticism and 20th-century materials. Prerequisites: MUTH 1130, MUTH 1230. Corequisite: MUTH 2229.

MUTH 2130 - Musicianship IV
Credits: 1
Continuation of MUTH 2129 covering solfeggio, melodic, and harmonic dictation employing chromaticism and 20th-century materials. Prerequisites: MUTH 2129, MUTH 2229. Corequisite: MUTH 2230.

MUTH 2229 - Music Theory III
Credits: 2
Continuation of MUTH 1230 covering repertoire from the 19th century to the present. Emphasis on traditional harmonization exercises, beginning studies in musical form, and introduction to current analytical methods. Prerequisites: MUTH 1130, MUTH 1230. Corequisite: MUTH 2129.

MUTH 2230 - Music Theory IV
Credits: 2
Continuation of MUTH 2229 covering repertoire from the 19th century to the present. Emphasis on traditional harmonization exercises, musical form, and current analytical methods. Prerequisites: MUTH 2129, MUTH 2229. Corequisite: MUTH 2130.

MUTH 3117 - Songwriting Laboratory
Credits: 1
Guided work–shopping of songs through group sharing and comprehensive application of information provided in MUTH 3217. Does not satisfy the 3000–level or above MUTH requirement for music majors.

MUTH 3200 - Private Composition
Credits: 2
Individual study with the composition faculty and regularly scheduled seminars with faculty and visiting guests. Prerequisite: Admission to the composition degree program.

MUTH 3217 - Songwriting
Credits: 2
Development of songwriting knowledge and skills, including essential components of a song, basic song forms, multiple approaches to starting and completing songs, recording basics, and related aspects of music law. Does not satisfy the 3000–level or above MUTH requirement for music majors.

MUTH 3300 - Private Composition
Credits: 3
Individual study with the composition faculty and regularly scheduled seminars with faculty and visiting guests. Prerequisite: Admission to the composition degree program.

MUTH 3350 - Form and Analysis
Credits: 3
Study of musical form within a wide range of styles. Prerequisites: MUTH 2130, MUTH 2230.

MUTH 4184 - Directed Studies in Music Theory
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 4186 - Directed Studies in Music Industry Practices
Credits: 1
Covers advanced concepts required for music and multi-media production.

MUTH 4190 - Directed Studies in Music Composition
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 4202 - Seminar in Music Theory
Credits: 2
Advanced analytical study of music in a selected style or genre, or by a particular composer or group of composers. Fulfills upper-division MUTH requirements. Repeatable. Prerequisites: MUTH 2130, MUTH 2230.

MUTH 4284 - Directed Studies in Music Theory
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 4286 - Directed Studies in Music Industry Practices
Credits: 2
Covers advanced concepts required for music and multi-media production.

MUTH 4290 - Directed Studies in Music Composition
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 4300 - Analysis of Contemporary Music
Credits: 3
Detailed analysis of recent music written in a variety of styles and using diverse techniques. Explores early 20th-century antecedents of more recent music. Analysis and discussion are supported by readings from theoretical articles and composers' writings. Prerequisites: MUTH 2130, MUTH 2230.

MUTH 4310 - Introduction to Electro-Acoustic Music
Credits: 3
Covers historical and emerging concepts and techniques of composing, performing, and listening to fixed and interactive electro-acoustic music via lectures and laboratory projects. Includes basic acoustics, the history and literature of electronically generated music, and hardware and software tools for the generation, processing, and reproduction of musical sound. Students complete individual and collaborative projects, applying their studies to the recording, creation, and performance of fixed and real-time interactive, creative projects. Prerequisites: MUTH 2130 and MUTH 2230, or consent of instructor.

MUTH 4311 - Advanced Topics in Music Technology
Credits: 3
Advanced investigation into a variety of topics in electro-acoustic music and technology-related musical art forms. Topics are announced each term the course is offered and may include film music, MIDIstration, real-time interactive performance using Max/MSP/Jitter, algorithmic composition, and technology-related interdisciplinary collaboration. Repeatable. Prerequisite: MUTH 4310/MUTH 6310, MSA 3310, or permission of instructor.

MUTH 4384 - Directed Studies in Music Theory
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 4386 - Directed Studies in Music Industry Practices
Credits: 3
Covers advanced concepts required for music and multi-media production.

MUTH 4390 - Directed Studies in Music Composition
Credits: 3
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

MUTH 5130 - Collaborative Composition
Credits: 1
Students collaborate with artists in other disciplines on composition projects. Meadows disciplines rotate periodically.

MUTH 5150 - Advanced Musicianship
Credits: 1
Develops musicianship skills beyond the level attained in the undergraduate core musicianship courses. Includes sight reading and improvisation studies in a range of musical styles for both voice and instruments, advanced melodic and harmonic dictation exercises, aural analysis of musical examples from a wide range of style periods, and the use of the keyboard to support the continued development of skills. Repeatable for credit. Instructor consent required. Prerequisites: MUTH 2130, MUTH 2230 for undergraduate students, or a passing score for the Graduate Music Theory Diagnostic Exam or for MUTH 6023, MUTH 6124, and MUTH 6125 for graduate students.

MUTH 5210 - Keyboard Musicianship
Credits: 2
Applies the student's knowledge of music theory to practical keyboard musicianship and explores core principles of keyboard improvisation. Prerequisites: MUTH 2130, MUTH 2230 and PERB 2132, or permission of instructor.

MUTH 5250 - Advanced Musicianship
Credits: 2
Develops musicianship skills beyond the level attained in the undergraduate core musicianship courses. Includes sight reading and improvisation studies in a range of musical styles for both voice and instruments, advanced melodic and harmonic dictation exercises, aural analysis of musical examples from a wide range of style periods, and the use of the keyboard to support the continued development of skills. Repeatable for credit. Instructor consent required. Prerequisites: MUTH 2130, MUTH 2230 for undergraduate students, or a passing score for the Graduate Music Theory Diagnostic Exam or for MUTH 6023, MUTH 6124, and MUTH 6125 for graduate students.

MUTH 5325 - Class Composition
Credits: 3
A composition course for noncomposition majors. Topics include notational practices; contemporary and traditional approaches to composition through study of model works from the literature; in-class presentation, reading, and critique of projects; and professional standards for the creation and distribution of scores, parts, and recordings of

compositions and arrangements. Prerequisites: MUTH 2130, MUTH 2230 or permission of instructor. Restricted to music majors.

MUTH 5330 - Instrumentation and Arranging
Credits: 3
An overview of the ranges and performing characteristics of orchestral and band instruments and vocalists, with practical application via scoring and arranging for a variety of small instrumental and vocal ensembles. Prerequisites: MUTH 2130, MUTH 2230.

MUTH 5360 - Advanced Orchestration
Credits: 3
Explores advanced techniques of orchestration through a series of scoring projects for a variety of ensembles. Prerequisite: MUTH 5330 or permission of instructor.

MUTH 5370 - Survey of Counterpoint
Credits: 3
Through exercises in analysis and composition, this course provides a study of contrapuntal techniques from the Middle Ages to the 20th century, with emphasis on traditional modal and tonal styles. Prerequisites: MUTH 2130, MUTH 2230.

Music Therapy

MUTY 1120 - Clinical Orientation
Credits: 1
The study of music therapy assessment, treatment procedures, and evaluation, through observation as well as literature and repertoire review. Each student will participate on a working music therapy team. Prerequisite: Permission of instructor.

MUTY 1320 - Introduction to Music Therapy
Credits: 3
An overview of the function of the music therapist, the history of the music therapy profession, and music in treatment procedures. The course is required of all music therapy majors and is open to others who may want information about the professional field of music therapy.

MUTY 3141 - Developmental Music Therapy Practicum I
Credits: 1
Supervised observation of and therapeutic experience with persons who exhibit developmentally delayed disorders. Corequisite: MUTY 3211.

MUTY 3142 - Psychiatric Music Therapy Practicum II
Credits: 1
Supervised observation of and therapeutic experience with persons who exhibit psychopathological disorders. Corequisite: MUTY 3212.

MUTY 3143 - Medical Music Therapy Practicum III
Credits: 1
Supervised observation and development of clinical skills with patients in medical settings. Corequisite: MUTY 3213.

MUTY 3144 - Gerontological Practicum IV
Credits: 1
Supervised observation and development of clinical skills with elderly clients. Corequisite: MUTY 3214.

MUTY 3211 - Developmental Music Therapy
Credits: 2
A study of music therapy with developmentally disabled children and adults such as mentally disabled, visually disabled, and speech–impaired individuals. Corequisite: MUTY 3141.

MUTY 3212 - Psychiatric Music Therapy
Credits: 2
A study of music therapy with persons with psychopathological disorders such as schizophrenia, depression, and dementia. Corequisite: MUTY 3142.

MUTY 3213 - Medical Music Therapy
Credits: 2
A study of music therapy with the health impaired, including burn patients, AIDS patients, and obstetric patients. Corequisite: MUTY 3143.

MUTY 3214 - Gerontological Music Therapy
Credits: 2
A study of music therapy with elderly, gerontological clients. Corequisite: MUTY 3144.

MUTY 4141 - Music Therapy Practicum V
Credits: 1
Supervised clinical experience in the treatment and health maintenance of clients with clinical disorders.

MUTY 4246 - Music Therapy Internship
Credits: 2
Includes 6 months or 1040 clock hours of continuous full-time music therapy experience in an AMTA-approved clinical facility. Requires reports from the intern and music therapy supervisor before, during, and after the internship. Because the internship extends beyond the regular term, enrollment for MUTY 4246 occurs during summer 1 term for the year in which the internship begins. Prerequisite: Completion of all course, clinical, and preclinical work in the undergraduate music therapy degree.

MUTY 4340 - Research Methods and Materials in Music Therapy
Credits: 3
A study of research methods in music psychology, therapy, and education, with emphasis on research designs, analysis, and interpretation of research literature.

MUTY 4341 - Survey of Music Psychology
Credits: 3
Basic study of music systems, with emphasis on perception of and responses to musical stimuli. Also, interpretation of the interdependence of psychological, sociological, and physiological processes in musical behavior, such as musical ability and preference.

MUTY 5342 - Medical Music Therapy and Spiritual Care
Credits: 3
Offers an in-depth exploration of the role that music in therapy and spiritual care plays in the hospital setting, including end of life; ways in which music can be used to address spirituality; spiritual needs and well-being within the therapeutic context; and the impact that co-treating between music therapists and spiritual care workers can have on patient care. Also provides an overview of medical terminology and population needs; explores cultural and ethical issue; professional scope of practice; boundaries and contraindications; and issues in self-care.

Class Instruction for Performance

PERB 1103 - Modern Acoustic Guitar I
Credits: 1
Beginning steel-string acoustic guitar skills. Emphasis on chords and flatpicking strum patterns for accompanying songs in a variety of genres, including popular, folk, rock, R&B, and country. Additional left- and right-hand techniques are also introduced and explored.

PERB 1104 - Modern Acoustic Guitar II
Credits: 1
Intermediate steel-string acoustic guitar skills. Emphasis on barre chords and enhanced flatpicking and fingerpicking patterns for accompanying songs in a variety of genres, including popular, folk, rock, R&B, and country. Additional left- and right-hand techniques are also explored. Prerequisite: PERB 1103 or instructor permission.

PERB 1105 - Sight Reading for Pianists
Credits: 1
A requirement for premusic majors in piano performance. Students explore techniques to improve their ability to read music at any level through supervised practicing and reading of various piano literature.

PERB 1131 - Class Piano I
Credits: 1
Emphasis on sight reading, technique, harmonization, transposition, improvisation, and appropriate literature. Corequisites: MUTH 1129, MUTH 1229. Reserved for music majors (except keyboard majors) or minors.

PERB 1132 - Class Piano II
Credits: 1
Emphasis on sight reading, technique, harmonization, transposition, improvisation, and appropriate literature. Corequisites: MUTH 1130, MUTH 1230. Prerequisite: PERB 1131. Reserved for music majors (except keyboard majors) or minors.

PERB 1203 - Class Guitar
Credits: 2
Basics of reading music, classic guitar technique, and simple chord progressions. Performance of simple classic guitar pieces.

PERB 1205 - Beginning Class Piano
Credits: 2
Designed for students with no previous piano study. Emphasis placed on the development of basic music reading and functional keyboard skills. Not open to music majors.

PERB 1206 - Class Voice
Credits: 2
A course in basic singing techniques and interpretive skills, suitable for both beginning singers and for students with singing experience but little formal training.

PERB 1233 - Advanced Class Piano I
Credits: 2
(fall term of odd-numbered years) Emphasis on sight reading, harmonization, transposition, improvisation, and technique. Reserved for keyboard majors or music majors with advanced keyboard skills.

PERB 1234 - Advanced Class Piano II
Credits: 2
(spring term of even-numbered years) Emphasis on sight reading, harmonization, transposition, improvisation, and technique. Prerequisite: PERB 1233. Reserved for keyboard majors or music majors with advanced keyboard skills.

PERB 2106 - Diction: Italian
Credits: 1
Principles of pronunciation and enunciation for singing in Italian. Phonetic practice and practical application to the performance of art songs and arias.

PERB 2107 - Diction: German
Credits: 1
Principles of pronunciation and enunciation for singing in German. Phonetic practice and practical application to the performance of art songs and arias.

PERB 2108 - Diction: English
Credits: 1
Principles of pronunciation and enunciation for singing in English. Phonetic practice and practical application to the performance of art songs and arias.

PERB 2113 - Hand Drumming and Ethnic Percussion I
Credits: 1
Development of fundamental hand drumming and other percussion skills through listening, analysis, and performance of African, Latin American, and Asian rhythms.

PERB 2114 - Hand Drumming and Ethnic Percussion II
Credits: 1
Further development of hand drumming and other percussion skills through listening, analysis and performance of non-Western rhythms. Prerequisite: PERB 2113 or consent of instructor.

PERB 2131 - Class Piano III
Credits: 1
Emphasis on sight reading, technique, harmonization, transposition, improvisation, and appropriate literature. Corequisites: MUTH 2129, MUTH 2229. Prerequisite: PERB 1132. Reserved for music majors (except keyboard majors) or minors.

PERB 2132 - Class Piano IV
Credits: 1
Emphasis on sight reading, technique, harmonization, transposition, improvisation, and appropriate literature. Corequisites: MUTH 2130, MUTH 2230. Prerequisite: PERB 2131. Reserved for music majors (except keyboard majors) or minors.

PERB 2203 - Class Guitar
Credits: 2
Continued development of classic guitar technique and repertoire. Prerequisite: PERB 1203 or instructor permission.

PERB 2205 - Class Piano
Credits: 2
Continued development of fundamental keyboard skills. Emphasis on sight reading, harmonization, transposition, improvisation, technique, and repertoire study. Prerequisite: PERB 1205 or equivalent. Audition for placement required. Not open to music majors.

PERB 2206 - Class Voice
Credits: 2
A course in singing techniques and interpretive skills, suitable for students with some singing experience but little formal training. Prerequisite: PERB 1206.

PERB 2209 - Diction: French
Credits: 2
Principles of pronunciation and enunciation for singing in French. Phonetic practice and practical application to the performance of art songs and arias.

PERB 2213 - World Rhythms: Ethnic Percussion and Cultural Immersion
Credits: 2
Introduces rhythms and instruments of world music through total immersion in a specific world culture. Students learn hand drumming and ethnic percussion techniques and the cultural context of the music. (SMU Abroad)

PERB 3306 - Class Voice Musical Theatre I
Credits: 3
Introduces the dancer and actor to proper singing technique for musical theatre, with an emphasis on the repertoire of musical theatre. Prerequisites: Permission of instructor; musical theatre minor or major or minor in dance, music, or theatre. Students minoring in musical theatre have priority to enroll in the class.

PERB 3307 - Class Voice Musical Theatre II
Credits: 3
Advanced development of proper musical theatre singing technique for dancers and actors. Students also gain a broader knowledge of repertoire for the musical theatre. Prerequisite: PERB 3306 or instructor consent.

PERB 5006 - Singers' Diction Review
Credits: 0
A review course required of all students not passing an entrance assessment for proficiency in the pronunciation of Italian, French, and German.

PERB 5101 - Directed Studies in Voice
Credits: 1
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

PERB 5107 - Keyboard Skills for Conductors I
Credits: 1
Keyboard competencies for conductors, including basic technical patterns, harmonization, and relevant score reading. Review course for the M.S.M. and the M.M. in conducting keyboard proficiency requirement.

PERB 5108 - Keyboard Skills for Conductors II
Credits: 1
Advanced keyboard competencies for conductors, including basic technical patterns, harmonization, and relevant score reading. Review course for the M.S.M. and the M.M. in conducting keyboard proficiency requirement.

PERB 5111 - Directed Studies in Performance
Credits: 1
Directed studies or approved internships in performance or pedagogy. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

PERB 5119 - Music Theatre Workshop
Credits: 1
Preparation and performance of musical theatre as an American art form. Prerequisite: By audition.

PERB 5170 - Chamber Music Workshop
Credits: 1
Focuses on a specific work or cycle of works from the chamber music repertory and includes regular rehearsals led

by the instructor. Students discuss the historical background and performance practices related to the work(s) as well as engage in the analysis of musical structure and style. Instructor consent required.

PERB 5201 - Directed Studies in Voice
Credits: 2
A close collaboration between a faculty member and an advanced student who conducts a rigorous project that goes beyond the experience available in current course offerings. Prerequisite: Approval of instructor.

PERB 5208 - Advanced Acting for Voice Majors
Credits: 2
Acting and performance tools, character development, monologue study, and repertoire preparation and research. Prerequisites: Concurrent enrollment in VOIC and consent of instructor.

PERB 5211 - Directed Studies in Music Performance
Credits: 2
Directed studies or approved internships in performance or pedagogy. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

PERB 5213 - Studies Continuo Playing
Credits: 2
(fall term of even-numbered years) Designed for the harpsichord major, to fill the need for a well-developed skill in playing Baroque through bass accompaniments from an unrealized figured bass and/or from an unfigured bass with style performance suitable to the period.

PERB 5219 - Music Theatre Workshop
Credits: 2
Preparation and performance of musical theatre as an American art form. Prerequisite: By audition.

PERB 5310 - Music Theatre Workshop: SMU Abroad
Credits: 3
Preparation and performance of musical theatre as an American art form. Prerequisite: By interview.

PERB 5319 - Music Theatre Workshop
Credits: 3
Preparation and performance of musical theatre as an American art form. Prerequisite: By audition.

PERB 5320 - Orchestral Workshop
Credits: 3
Advanced investigation of a variety of topics pertinent to the training of orchestral musicians, including auditioning, repertory issues, free-lance work considerations, and music business concerns. Topic varies by term. May be repeated for credit. Permission of instructor required.

Performance Ensembles

PERE 5000 - Meadows Ensemble
Credits: 0
Participation in a Meadows ensemble at the discretion of ensemble directors. Open to all students through audition, although most participants are music majors. Includes public performances of a wide variety of repertoire each season.

PERE 5110 - Point: Interdisciplinary Project and Performance Ensemble
Credits: 1
An interdisciplinary ensemble for inventive artists of all interests, exploring the future of personal expression

through collaborative projects and performances. Innovative technologies are utilized and created. Open to all SMU students with instructor consent. May be repeated for credit.

PERE 5112 - Mustang Marching Band
Credits: 1
Preparation and performance of music for field performances.

PERE 5113 - Meadows Chorale
Credits: 1
This large mixed choir is open through audition to all undergraduate and graduate students, regardless of major. Fulfills large ensemble requirements for Music Division degree programs.

PERE 5114 - Meadows Chamber Singers
Credits: 1
A select vocal ensemble comprised of the most advanced vocal talent in the university; open through audition to all undergraduate and graduate students, regardless of major. Fulfills large ensemble requirements for Music Division degree programs.

PERE 5115 - Meadows Jazz Orchestra
Credits: 1
Rehearsal and performance of standard and original works for jazz ensembles. By audition.

PERE 5116 - Concordia
Credits: 1
A select treble choir that performs an eclectic mix of repertoire from chamber works to opera excerpts to standard choral works. Open to all students (regardless of major) through audition. Fulfills large ensemble requirements for Music Division degree programs.

PERE 5118 - Meadows Large Instrumental Ensemble
Credits: 1
Participation in Meadows Symphony Orchestra and/or Meadows Wind Ensemble at the discretion of ensemble directors. Open to all students through audition, although most participants are music majors. Includes public performances of a wide variety of repertoire each season.

PERE 5121 - Meadows World Music Ensemble
Credits: 1
Exploration of rhythms, melodies, forms, and basic ethnic percussion techniques from Africa, Asia, Latin America, and a variety of cultures. Includes composition, improvisation, and performances within forms of ethnic traditions adapted to Western instruments. Prerequisite: Music major or consent of instructor.

PERE 5122 - Meadows Lyric Theatre
Credits: 1
Musical preparation, dramatic coaching, role study, rehearsal, and performance of opera and musical theatre. Eligibility, by audition, for the annual main stage production. Prerequisite: By audition.

PERE 5130 - Meadows Guitar Ensemble
Credits: 1
Preparation and performance of guitar ensemble literature. Prerequisite: Guitar major or consent of instructor.

PERE 5168 - Chamber Ensemble: Piano Duos
Credits: 1
Preparation and performance of piano duets for one piano, four hands and two pianos, four hands. Does not fulfill chamber music requirements for music majors.

PERE 5171 - Chamber Ensemble
Credits: 1
Preparation and performance of repertoire for various ensembles of three to nine mixed instruments, one to a part, without conductor.

PERE 5173 - Meadows Percussion Ensemble
Credits: 1
Rehearsal and performance of standard percussion ensemble literature. By audition.

Voice and Vocal Coaching

VOIC 3100 - Private Study: Voice
Credits: 1
One half-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall, spring, and summer. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

VOIC 3200 - Private Study: Voice
Credits: 2
One 1-hour lesson each week (14 per term) with a jury examination at the conclusion of each term. These repeatable course numbers are offered each fall and spring. Majors are required to enroll in private studies each term until degree requirements are completed. Students are required to accept internships in performance or private teaching, subject to availability and/or scheduling conflicts with other SMU courses. Internships may begin prior to the beginning of the term.

VOIC 4118 - Vocal Coaching
Credits: 1
Vocal coaching for undergraduate voice majors only. The instructor coaches the singer on diction and interpretation of art song and aria.

Theatre

Associate Professor Blake Hackler, **Division Chair**

Professors: Kevin Paul Hofeditz, Stanley Wojewodski, Jr., Steve Woods
Associate Professors: Benard Cummings, Blake Hackler, Russell Parkman, Sara Romersberger, Anne Schilling, Gretchen Smith, Claudia Stephens
Assistant Professors: Kristin Dana, Kara-Lynn Vaeni
Lecturer: Brad Cassil
Adjunct Lecturers: Dawn Askew, Jason Biggs, Tiana Jonson Blair, Amanda Capshaw, Michael Federico, Linda Blase, Driscoll Otto, Melissa Panzarello, Kathy Windrow
Production Manager: Dawn Askew
Costume Shop Manager: Melissa Panzarello
Costumer: Eugenie Stallings
Prop Master: JT Ringer
Scene Shop Foreman: Eliseo Gutierrez
Master Electrician: TBD
Associate Master Electrician: TBD
Technical Director: Justin Mosher
Assistant Technical Director: Steve Leary

General Information

Undergraduate education in the Division of Theatre reflects a commitment to the rigorous study of theatre within a liberal arts context. To this end, undergraduate theatre majors pursue coursework not only in theatre, but also in the social and natural sciences, literature, the arts and humanities, and other areas of human culture and experience. A faculty adviser works closely with each student to develop a program of study best suited to the individual's needs and career goals. In addition, the Division of Theatre presents an annual season of public productions chosen for their timeliness, public appeal and suitability for training. Practical experience in all areas of theatre operation is considered a vital part of the educational program.

Instructional Facilities

The Division of Theatre is housed in the well-equipped facilities of the Meadows School of the Arts. These facilities include the Greer Garson Theatre (a 380-seat theatre with a classical thrust stage), the Bob Hope Theatre (a 400-seat proscenium theatre), the Margo Jones Theatre (a 125-seat "black box" theatre), the Hamon Arts Library and numerous rehearsal studios.

Admission

Theatre is a dual admit program: in addition to meeting University admission criteria, prospective theatre majors at SMU are admitted to the major by audition and interview. All prospective students prepare an audition, consisting of two contrasting monologues and a song. Candidates may also be asked to demonstrate improvisational skills. Students seeking admission into the B.F.A. in Theatre Studies program may also be asked to demonstrate ability in their particular area of interest by supplying writing samples, portfolio materials, etc. Admission to the major requires both admission to SMU and admission through the theatre audition process. **Note:** Admission procedures for applicants seeking to transfer from other schools are the same as those for first-year applicants. Transfer students may begin work only in the fall term.

Evaluation of Progress and Artistic Growth

Students must continually demonstrate a high order of talent and commitment in both class work and production work to progress in the curriculum. At the end of each term, the faculty of the Division of Theatre evaluates each student's progress, examining all aspects of a student's academic and production participation. Every student meets with the faculty to receive this evaluation. An unsatisfactory evaluation is accompanied by the reasons for this evaluation and the terms for continuation in the program. An unsatisfactory evaluation may also result in a student's immediate dismissal from the program. Only Theatre courses passed with a grade of C- or better will count toward the major in Theatre. Students cast in mainstage faculty-directed productions are expected to enroll in the appropriate rehearsal and performance laboratory course.

Degrees and Programs of Study

The Division of Theatre offers the B.F.A. degree in theatre with an emphasis in theatre studies or an emphasis in acting.

Theatre, B.F.A. - Acting Emphasis

The B.F.A. degree in theatre with an emphasis in acting is a unique program of specialized acting study within a liberal arts context. Enriched by the intellectual growth engendered by both their liberal arts and theatre courses, acting students engage in an intense investigation of acting at the highest level. The purpose of the program is two-fold: to prepare students for 1) entrance into the profession, and/or 2) admission to a top-flight, graduate training program. Upon completion of two years of foundational actor training, students in the acting major receive advanced training in the areas of acting, stage movement and stage voice.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Acting Emphasis

Embodied Practice (6 Credit Hours)

- THEA 1303 - Embodied Practice
- THEA 1304 - Embodied Practice

Practica/Crews (12 Credit Hours)

- THEA 2140 - Light Running/Construction Crew
- THEA 2240 - Lighting Practicum
- THEA 2141 - Scene Running/Construction Crew
- THEA 2241 - Scenery Practicum
- THEA 2142 - Costume Running/Construction Crew
- THEA 2242 - Costume Practicum
- THEA 2361 - Introduction to Stage Management

Acting (18 Credit Hours)

- THEA 2303 - Acting 1
- THEA 2304 - Acting 2
- THEA 3303 - Acting 3
- THEA 3304 - Acting 4
- THEA 4303 - Acting 5
- THEA 4304 - Acting 6

Voice (14 Credit Hours)

- THEA 2305 - Voice for the Stage 1
- THEA 2306 - Voice for the Stage 2
- THEA 3305 - Voice for the Stage 3
- THEA 3306 - Voice for the Stage 4
- THEA 4105 - Voice for the Stage 5
- THEA 4106 - Voice for the Stage 6

Movement (14 Credit Hours)

- THEA 2307 - Movement 1

- THEA 2308 - Movement 2
- THEA 3207 - Movement 3
- THEA 3208 - Movement 4
- THEA 4207 - Movement 5
- THEA 4208 - Movement 6

Theatre and Drama History (6 Credit Hours)
- THEA 3381 - Theatre and Drama History 1
- THEA 3382 - Theatre and Drama History 2

Text Analysis and Business Aspects of Theatre (6 Credit Hours)
- THEA 2322 - Text Analysis
- THEA 4309 - Business and Professional Aspects of Theatre

Community Experience (1 Credit Hour)
- MSA 1101 - FACE: First–Year Arts Community Experience

Total: for the Major Only: 77 Credit Hours

Theatre, B.F.A. - Theatre Studies Emphasis

The B.F.A. degree in theatre with an emphasis in theatre studies reflects a commitment to theatre training within the context of liberal education. Based on the division's philosophy that an understanding of and experience with the actor's process are essential to education and training in all areas of theatre, all undergraduate theatre majors focus on foundational actor training during the first two years of their program of study. Focused study in one area of theatre, chosen from directing, play-writing, stage management, critical studies and design, is required to complete the major. With the approval of the student's theatre adviser and the chair of the division, this emphasis may be individualized to suit the specific goals of the student. All theatre studies students must complete at least 12 hours of upper-level courses among those offered in directing, playwriting, stage management, critical studies or design.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Theatre Studies Emphasis

Embodied Practice (6 Credit Hours)
- THEA 1303 - Embodied Practice
- THEA 1304 - Embodied Practice

Practica/Crews (12 Credit Hours)
- THEA 2140 - Light Running/Construction Crew
- THEA 2240 - Lighting Practicum
- THEA 2141 - Scene Running/Construction Crew
- THEA 2241 - Scenery Practicum
- THEA 2142 - Costume Running/Construction Crew
- THEA 2242 - Costume Practicum
- THEA 2361 - Introduction to Stage Management

Acting (6 Credit Hours)

- THEA 2303 - Acting 1
- THEA 2304 - Acting 2

Voice (6 Credit Hours)

- THEA 2305 - Voice for the Stage 1
- THEA 2306 - Voice for the Stage 2

Movement (6 Credit Hours)

- THEA 2307 - Movement 1
- THEA 2308 - Movement 2

Theatre and Drama History (6 Credit Hours)

- THEA 3381 - Theatre and Drama History 1
- THEA 3382 - Theatre and Drama History 2

Text Analysis (3 Credit Hours)

- THEA 2322 - Text Analysis

Directing, Playwriting (12 Credit Hours)

- THEA 3331 - Playwriting 1
- THEA 3332 - Playwriting 2
- THEA 3341 - Directing 1
- THEA 3342 - Directing 2

Critical Studies (6 Credit Hours)

- 6 credit hours to be chosen from THEA 4381, THEA 4382, THEA 4383, THEA 4384, THEA 4385, and Directed Studies courses that include a component of critical analysis, literary theory, literature, text analysis, theatre history, or any of these in combination with acting, playwriting, directing, design, or stage management. Other courses may be considered for inclusion as necessary. Directed Studies courses will need the approval/signature of the Head of Theatre Studies prior to registration.

Theatre Electives (11 Credit Hours)

- Any 9 credit hours of theatre studies classes subject to approval by theatre studies faculty, with advising interviews on an "as needed" basis
- Additional 2 credit hours of THEA classes

Community Experience (1 Credit Hour)

- MSA 1101 - FACE: First–Year Arts Community Experience

Total for the Major Only: 75 Credit Hours

Theatre Courses

The following classes are open to all students: THEA 2311, THEA 2319, THEA 2321, THEA 3381, THEA 3382, THEA 4381, THEA 4382, THEA 4383, THEA 4384, THEA 4385, THEA 5319. **Note**: There are no performance opportunities for nontheatre majors.

THEA 1001 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 1303 - Embodied Practice
Credits: 3
An introduction to theatre and performance for entering theatre majors. Considers basic artistic concepts, disciplines, and vocabulary common to this program, providing an elementary foundation in theatre with an emphasis on acting.

THEA 1304 - Embodied Practice
Credits: 3
An introduction to theatre and performance for entering theatre majors. Considers basic artistic concepts, disciplines, and vocabulary common to this program, providing an elementary foundation in theatre with an emphasis on acting.

THEA 2000 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 2001 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 2101 - Directed Study
Credits: 1
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 2140 - Light Running/Construction Crew
Credits: 1
Practical application of skills and knowledge studied in THEA 2240 to the mounting and running of a theatrical production; involves either serving on the running crew of a division production or completing 65 hours of work mounting a production. Theatre majors should complete this course by the end of the junior year. Division approval required for nonmajors. Must be taken concurrently with or subsequent to completion of THEA 2240.

THEA 2141 - Scene Running/Construction Crew
Credits: 1
Practical application of skills and knowledge studied in THEA 2241 to the mounting and running of a theatrical production; involves either serving on the running crew of a division production or completing 65 hours of work mounting a production. Theatre majors should complete this course by the end of the junior year. Division approval required for nonmajors. Must be taken concurrently with or subsequent to completion of THEA 2241.

THEA 2142 - Costume Running/Construction Crew
Credits: 1
Practical application of skills and knowledge studied in THEA 2242 to the mounting and running of a theatrical production; involves either serving on the running crew of a division production or completing 65 hours of work mounting a production. Theatre majors should complete this course by the end of the junior year. Division approval required for nonmajors. Must be taken concurrently with or subsequent to completion of THEA 2242.

THEA 2201 - Directed Study
Credits: 2
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-

drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 2240 - Lighting Practicum
Credits: 2
An introduction to the backstage crafts of theatrical lighting intended to give the student a broad understanding of the basic principles and technical procedures used in the design of lighting. Requires a 50-hour lab. Division approval required for nonmajors.

THEA 2241 - Scenery Practicum
Credits: 2
An introduction to the backstage crafts of theatrical scenery intended to give the student a broad understanding of the basic principles and technical procedures used in the design of scenery. Requires a 50-hour lab. Division approval required for nonmajors.

THEA 2242 - Costume Practicum
Credits: 2
An introduction to the backstage crafts of theatrical costume intended to give the student a broad understanding of the basic principles and technical procedures used in the design of costumes. Requires a 50-hour lab. Division approval required for nonmajors.

THEA 2271 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2272 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2273 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2274 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2275 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2276 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and

construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2277 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2278 - Technical Theatre Laboratory
Credits: 2
Various workshops structured to introduce a broad range of technical experience. May include properties design and construction, audio design for performing arts, advanced electrics, costume construction, and scenic construction for film and television.

THEA 2301 - Directed Study
Credits: 3
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 2303 - Acting 1
Credits: 3
Exploration of the actor's imagination and the nature of acting, embracing training concepts of ease, honesty, sense memory, and concentration.

THEA 2304 - Acting 2
Credits: 3
Beginning script work, in which the actor learns to analyze a scene for its events and to particularize these events in a series of expressive action tasks. Sophomore course. Prerequisite: THEA 2303.

THEA 2305 - Voice for the Stage 1
Credits: 3
Employing body awareness, modified yoga positions, and a variety of isolated physical actions, students deepen their experience of breath, impulse, and vibration. This process of freeing the vocal mechanism allows students to practice ease and efficiency of vocal release and to begin to make acting choices that are self-revealing. Addresses general patterns of self-editing and an initial expansion of the actor's range and flexibility in performance.

THEA 2306 - Voice for the Stage 2
Credits: 3
Students continue to practice ease and efficiency of vocal release and deepen their ability to make acting choices that are self-revealing. Vocal power, flexibility, and efficiency are enhanced and refined. Includes an introduction to phonetic information and execution of detailed speech actions.

THEA 2307 - Movement 1
Credits: 3
Teaches students to individuate internal energies of the body, to use these energies in movement and creation of precise statuary mime for the stage, and to begin to synthesize physical listening skills for ensemble acting. Skills taught include juggling, hatha yoga, corporal mime, illusionistic pantomime, t'ai chi ch'uan, and improvisation of mime pieces.

THEA 2308 - Movement 2
Credits: 3
Increases students' physical listening skills and practices these in unarmed stage combat. Skills taught include t'ui shou, chi sao, foil fencing (left and right), French sabre, kung fu animals, and conventions of unarmed stage combat. Prerequisite: THEA 2307.

THEA 2309 - Theatre Movement for Nonmajors
Credits: 3
Students develop beginning skills as an acrobat, a stage fighter, an imaginative physical improviser, and a deviser of physical stories and storytelling. This hands-on course helps the student find a process that can be used to create character or to broach any movement or physical challenge presented by a role for the stage, in a public-speaking situation, or in any part of life. Designed for nonmajors.

THEA 2311 - The Art of Acting
Credits: 3
Basic work in acting, voice, and movement for the nonmajor. Relaxation, concentration, imagination, and the actor's exploration and use of the social world.

THEA 2319 - Fashion History and Culture
Credits: 3
Explores how and why people tell others who they are by what they wear. Also, the role of clothing in and reflection of various historical cultures, including the relationship between fashion, art, architecture, and the decorative arts of selected time periods. For majors and nonmajors.

THEA 2321 - Spectacle of Performance
Credits: 3
Students learn to deconstruct spectacle and to analyze its influence upon themselves and society. Offers the opportunity to go backstage to experience firsthand how effects are achieved. Students are required to attend performances in a wide range of live venues and discuss what they observe, enabling them to view performance on a critical level. For majors and nonmajors.

THEA 2322 - Text Analysis
Credits: 3
Aids the first-year student in the skills necessary to read a play as an actor, a director, a playwright, a designer, and a student of drama; as such, it is an essential foundation step in the major. Explores key styles and genres of dramatic literature and important texts in the development of theatre. Includes lecture and discussion, and assignments include reading, written papers, and text-based exercises. Guest lecturers from the faculty will provide perspective on different areas of theatre production.

THEA 2333 - Technical Drawing for the Theatre
Credits: 3
Principles and practice in the techniques of drafting traditional and nontraditional types of stage scenery. Students learn how to prepare and present construction and detail drawings for use in a scene, prop, or electric shop.

THEA 2361 - Introduction to Stage Management
Credits: 3
An exploration of the methods and techniques of theatrical stage management, including preproduction planning, scheduling, and conducting rehearsals and performances. Assignments are both theoretical and practical. Permission of instructor required for nonmajors and first-year students.

THEA 2371 - Theatre Technology 1: Lighting Mechanics
Credits: 3
Introduces basic principles of stage lighting design, including the mechanics and optics of lighting instruments, electrical theory and practices, control systems, basic design concepts, and color theory. Controllable qualities of

light are investigated and demonstrated through the student's participation on a lighting crew for a production. Students are expected to provide appropriate materials as needed.

THEA 2372 - Theatre Technology 2: Costume Construction Techniques
Credits: 3
Introduces basic costume patterning and construction methods. Covers draping, drafting, flat-patterning, terminology, equipment usage, and the skills necessary to the entire costuming process. Students are expected to provide appropriate materials as needed.

THEA 2373 - Theatre Technology 3: Stagecraft
Credits: 3
Introduces the organization of the scene shop, tool maintenance and usage, construction techniques, technical drawing development, computer applications, rigging, and time and material budgeting. Includes class projects and work on Meadows stage productions. Students are expected to provide appropriate materials as needed.

THEA 2374 - Theatre Technology 4: Introduction to Theatrical Sound
Credits: 3
Introduces the organization of the sound studio, maintenance and usage of equipment, recording techniques, and computer applications. Includes class projects and work on Meadows stage productions. Students are expected to provide appropriate materials as needed.

THEA 3000 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 3001 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 3201 - Theatre Practicum
Credits: 2
Independent work with theatre faculty on a specific topic chosen by the student.

THEA 3207 - Movement 3
Credits: 2
Teaches extension of energy and physical listening skills. Skills taught include quarterstaff, rapier and dagger, court sword, and broad sword. Prerequisite: THEA 2308.

THEA 3208 - Movement 4
Credits: 2
Allows the student to process personal experience into the movement and sound of a character. Skills taught include clowning, Lecoq figures, and neutral mask. Prerequisite: THEA 3207.

THEA 3301 - Directed Study
Credits: 3
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 3302 - Directed Study
Credits: 3
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-

drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 3303 - Acting 3
Credits: 3
A synthesis of first- and second-year work to the end of an individual system by which actors approach the presentation of characters through their ability to present themselves effectively. Prerequisite: THEA 2302.

THEA 3304 - Acting 4
Credits: 3
Continuation and extension of THEA 3303, consisting of special projects in characterization studies. Prerequisite: THEA 3303.

THEA 3305 - Voice for the Stage 3
Credits: 3
Students refine their ability to execute detailed speech actions and identify specific phonetic changes using the International Phonetic Alphabet. Vocal power, flexibility, and malleability are enhanced. The application of voice and speech actions to heightened language and stakes in a scene is practiced and refined.

THEA 3306 - Voice for the Stage 4
Credits: 3
Vocal power, flexibility, and expressive capability are practiced in a variety of space configurations. Students refine their ability to execute detailed speech actions and identify specific phonetic changes using the phonetic alphabet. The application of voice and speech actions to accents and dialects is practiced and refined.

THEA 3311 - Acting for Singers and Dancers
Credits: 3
Advanced work in acting, voice, and movement built upon the foundational performance and presentation skills required for singing and dancing. Focus is on scene study intended to reinforce the actor's development of a method of text analysis as an entry to a tactical approach (objective, obstacle, action) to acting and to facilitate the integration of text analysis and self-use as a process to create an emotionally honest, powerful, and effective moment of dramatic action on the stage. For dance majors and music vocal performance majors only. Prerequisite: Permission of instructor.

THEA 3331 - Playwriting 1
Credits: 3
Creative exploration in the development of performance scripts with emphasis on structural vocabularies of story, plot, character development, and dramatic action.

THEA 3332 - Playwriting 2
Credits: 3
Intermediate techniques of playwriting with emphasis on developing individual style and voice; writing one-act plays. Prerequisite: THEA 3331.

THEA 3341 - Directing 1
Credits: 3
Students research the relationship between a designer and director, and create and conceptualize various approaches to texts to gain a working vocabulary in the collaborative language among theatre artists. Culminates in a director and designer presentation or performance.

THEA 3342 - Directing 2
Credits: 3
Production styles and methodologies evidenced in the art of major modern directorial innovators. Directing projects required. Prerequisites: THEA 3341 and permission of instructor.

THEA 3351 - Textiles
Credits: 3
Explores various fabrics and materials used in costume construction, millinery, and crafts for theatre and film. Includes skills such as dyeing, distressing, fabric painting, and various methods of fabrication. The course attempts to complete training for the designer beyond the sketch.

THEA 3357 - Designing with Computers, Stage Projection
Credits: 3
An exploration of the tools for computer image creation (e.g., AutoCAD, MiniCAD, and Adobe Photoshop) and their application.

THEA 3361 - Stage Management 1
Credits: 3
Fuller explanation of the methods and techniques of theatrical stage management. Prerequisite: THEA 2361.

THEA 3362 - Stage Management 1
Credits: 3
Fuller explanation of the methods and techniques of theatrical stage management. Prerequisite: THEA 2361.

THEA 3371 - Automated Lighting 2
Credits: 3
Students work with Vari-Lite, Robe, and Martin automated lighting fixtures while learning advanced programming skills.

THEA 3373 - Draping I
Credits: 3
A study of pattern making that utilizes the three-dimensional approach of draping fabric on a dress form and the approach of drafting patterns by formula. Students learn to drape a basic bodice, skirt, and collars, to create a basic sleeve pattern by formula, and to manipulate these patterns to achieve a variety of shapes.

THEA 3374 - Draping II
Credits: 3
Exploration of period dress from a draping point of view.

THEA 3375 - Theatre Technology 5: Lighting Automation
Credits: 3
Advanced study in the field of automated lighting and control systems.

THEA 3376 - Theatre Technology 6: Advanced Costume Construction Techniques
Credits: 3
A continuation in the study of costume construction.

THEA 3377 - Theatre Technology 7: Advanced Stagecraft
Credits: 3
A continuation of stagecraft that explores advanced construction techniques, rigging, metal work, and the use of automation in scenery.

THEA 3378 - Theatre Technology 8: Advanced Techniques in Sound
Credits: 3
The use of sound to create an environment for a theatrical event will be explored. Students will complete a studio project and/or Meadows event.

THEA 3379 - Computer-Assisted Design I
Credits: 3
Students learn the fundamentals of computer-assisted design, using VectorWorks and Spotlight, in application for the theatre. Emphasizes 2-D work and includes 3-D work. Drafting, as such, is not taught. Prerequisite: Knowledge of mechanical drawing and its conventions.

THEA 3380 - Computer-Assisted Design II
Credits: 3
Uses VectorWorks as the primary drafting software, with a focus on modeling scenic and lighting designs, organization of the drawing layouts, rendering techniques, and lighting-specific CAD tools.

THEA 3381 - Theatre and Drama History 1
Credits: 3
Examines key moments in the history of Western theatre and drama. Focuses on selected dramatic texts and their social and cultural contexts, and to the dynamic interactions and changing relationships among performance, audience, and society as influenced by the advent of actors, playwrights, designers, and directors, and by changes in theatre architecture and the social definition of space.

THEA 3382 - Theatre and Drama History 2
Credits: 3
Examines key moments in the history of Western theatre and drama. Focuses on selected dramatic texts and their social and cultural contexts, and to the dynamic interactions and changing relationships among performance, audience, and society as influenced by the advent of actors, playwrights, designers, and directors, and by changes in theatre architecture and the social definition of space.

THEA 4000 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 4001 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 4101 - Directed Study
Credits: 1
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 4105 - Voice for the Stage 5
Credits: 1
A continuation of the voice curriculum to further enrich the actor's technique and address any outstanding issues in the work. The vocal workout keeps the actor in tune with his/her instrument while preparing to enter the profession. Prerequisite: Permission of instructor.

THEA 4106 - Voice for the Stage 6
Credits: 1
A continuation of the voice curriculum, including the study of the International Phonetic Alphabet, dialect and accent work, and the addition of specific skills for a variety of media. Addresses cold-reading skills, studio time and use of microphones, and commercial work for radio and television spots. Prerequisite: Permission of instructor.

THEA 4201 - Directed Study
Credits: 2
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 4207 - Movement 5
Credits: 2
Explores historical movement and dance, including selected dances, movements, and manners during the 16th-20th centuries, focusing on the embodiment of the style of those periods. Emphasis is placed on the dress, movement, and manners of the Renaissance and Classic Baroque periods. Prerequisite: Permission of instructor.

THEA 4208 - Movement 6
Credits: 2
Explores physical self-study through mask work, including neutral mask, the masks of the commedia dell'arte, the character mask, and the European clown. Also, finding a physical neutral, playing the stock masked commedia characters and their counterparts in plays by Shakespeare and Moliere, and finding one's own personal clown. Prerequisite: Permission of instructor.

THEA 4301 - Directed Study
Credits: 3
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 4303 - Acting 5
Credits: 3
An actor's approach to classic texts through scene study, monologues, and lecture and demonstration, with a focus on Shakespeare and his contemporaries.

THEA 4304 - Acting 6
Credits: 3
An actor's approach to classic texts through scene study, monologues, and lecture and demonstration, with a focus on Shakespeare and his contemporaries.

THEA 4305 - Voice for the Stage 5
Credits: 3
Vocal power, flexibility, and transformation are practiced with a variety of textual demands. Actors work in character voice in scene work and presentations. Students refine their ability to execute detailed speech actions and identify specific phonetic changes using close phonetic transcription.

THEA 4306 - Voice for the Stage 6
Credits: 3
Vocal power, flexibility, and transformation are practiced with a variety of textual, character, and space demands. Students refine their ability to execute detailed speech actions and identify specific phonetic changes using close phonetic transcription. Students prepare a solo performance employing the skills they have learned in the entire sequence of training.

THEA 4309 - Business and Professional Aspects of Theatre
Credits: 3
A preparation for graduating actors that includes compiling résumés, photographs, cold readings, monologues, and scene work with a variety of scripts for repertory or summer theatre casting.

THEA 4331 - Playwriting 3
Credits: 3
Advanced work in the development of performance scripts for the stage with emphasis on full-length works. Prerequisite: THEA 3332.

THEA 4332 - Playwriting IV
Credits: 3
Advanced techniques of writing for the stage, including rehearsal and performance or produced theatrical event. Focuses on professional aspects of playwriting. Prerequisite: THEA 4331.

THEA 4341 - Directing 3
Credits: 3
Advanced project studies in stage direction with emphasis on the interplay between director and other artistic collaborators (playwrights and/or designers). Prerequisites: THEA 3342 and permission of instructor.

THEA 4342 - Directing 4
Credits: 3
Advanced techniques in the interpretation of established dramatic literature and/or creation of original work for the stage. Emphasis on collaboration between director and playwright. This course is for the student seriously considering directing as a career. Time will be spent on exploring professional career choices for the young director. Prerequisites: THEA 4341 and permission of instructor.

THEA 4357 - Designing with Computers: Stage Projection
Credits: 3
Working with the tools necessary to create projected scenery, students learn the fundamentals of creating projected images for the stage.

THEA 4358 - Designing with Computers: Stage Projection II
Credits: 3
A continuation of the fundamentals for creating projected images for the stage.

THEA 4361 - Stage Management 2
Credits: 3
Fuller explanation of the methods and techniques of theatrical stage management. Prerequisites: THEA 3361, THEA 3362.

THEA 4362 - Stage Management 2
Credits: 3
Fuller explanation of the methods and techniques of theatrical stage management. Prerequisites: THEA 3361, THEA 3362.

THEA 4363 - Production Management
Credits: 3
Introduces the role of the production manager for live entertainment, including budgeting, scheduling, and business aspects.

THEA 4376 - Lighting Automation I
Credits: 3
Presents approaches to lighting design and poses specific design problems for the students to solve, with attention given to color composition, cueing, and production values. Focuses on Vari-Lite, Robe, and Martin experimentation.

THEA 4381 - Solo Performance
Credits: 3
An examination of selected topics in theatre, drama, and performance. Texts, topics, and critical approaches vary.

THEA 4382 - Studies in Theatre, Drama, and Performance
Credits: 3
An examination of selected topics in theatre, drama, and performance. Texts, topics, and critical approaches vary.

THEA 4383 - Studies in Theatre, Drama, and Performance
Credits: 3
An examination of selected topics in theatre, drama, and performance. Texts, topics, and critical approaches vary.

THEA 4384 - Studies in Theatre, Drama, and Performance
Credits: 3
An examination of selected topics in theatre, drama, and performance. Texts, topics, and critical approaches vary.

THEA 4385 - Studies in Theatre, Drama, and Performance
Credits: 3
A senior-level, interdisciplinary seminar that examines cultural production through the media of art, architecture, dramaturgy, festival, and theatre.

THEA 4491 - Special Project 1
Credits: 4
Provides meaningful and challenging hands-on leadership experience in the design or technical area, bringing together 3 years of the student's classwork, shop and studio experience, and growth.

THEA 4492 - Special Project 2
Credits: 4
Provides meaningful and challenging hands-on leadership experience in the design or technical area, bringing together 3 years of the student's classwork, shop and studio experience, and growth.

THEA 5000 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 5001 - Design Laboratory I
Credits: 0
Exploration of techniques in advanced design.

THEA 5002 - Design Laboratory II
Credits: 0
Continuing exploration of techniques in advanced design.

THEA 5003 - Design Laboratory III
Credits: 0
Continuing exploration of techniques in advanced design.

THEA 5004 - Design Laboratory IV
Credits: 0
Continuing exploration of techniques in advanced design.

THEA 5005 - Rehearsal and Performance Laboratory
Credits: 0
Embodied application in the processes of rehearsal and performance.

THEA 5101 - Directed Study
Credits: 1
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 5103 - Projects I
Credits: 1
Performance/production workshops for first-year graduate acting students, directed by faculty.

THEA 5104 - Projects II
Credits: 1
Performance/production workshops for first-year graduate acting students, directed by faculty.

THEA 5201 - Directed Study
Credits: 2
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 5204 - Acting II
Credits: 2
Furthering the embodiment of a fundamental acting process through exercise, discussion, reading, improvisation, and scene study. Dramaturgical materials are drawn primarily from the works of Chekhov, Ibsen, and early modern American realism.

THEA 5205 - Movement I
Credits: 2
Exploration of the actor's self through immersion in physical skills for the theatre, including t'ai chi ch'uan, corporal mime, improvisation, juggling, hatha yoga, unarmed stage combat, animal-style wu shu, and foil fencing.

THEA 5206 - Movement 2
Credits: 2
Exploration of the actor's self through immersion in physical skills for the theatre, including t'ai chi ch'uan, corporal mime, improvisation, juggling, hatha yoga, unarmed stage combat, animal-style wu shu, and foil fencing.

THEA 5207 - Voice for the Stage I
Credits: 2
Introduces basic principles of physical, vocal, and imaginative freedom through a series of progressive exercises and experiences. Encourages the removal of psychophysical barriers to sound production and develops the voice's sensitivity to impulse, power, flexibility, and range. Includes organic exploration of sounds of speech, using IPA pillows and sound and movement improvisations. Students develop self-scripted solo pieces, explore poetry and song, and apply voice work to modern dramatic texts.

THEA 5208 - Voice for the Stage II
Credits: 2
Introduces basic principles of physical, vocal, and imaginative freedom through a series of progressive exercises and experiences. Encourages the removal of psychophysical barriers to sound production and develops the voice's

sensitivity to impulse, power, flexibility, and range. Includes organic exploration of sounds of speech, using IPA pillows and sound and movement improvisations. Students develop self-scripted solo pieces, explore poetry and song, and apply voice work to modern dramatic texts.

THEA 5209 - Applied Movement I
Credits: 2
Bodywork as it pertains to economy of movement, alignment, proper use, kinesthetic awareness, strength, flexibility, and freeing the physical instrument. Includes acrobatics, the Lecoq 20 movements, neutral mask, the physicalization of text, improvisation, and ensemble projects employing the physical work investigated throughout the term.

THEA 5210 - Applied Movement II
Credits: 2
Continuation of bodywork as it pertains to economy of movement, alignment, proper use, kinesthetic awareness, strength, flexibility, and freeing the physical instrument. Includes acrobatics, the Lecoq 20 movements, neutral mask, the physicalization of text, improvisation, and ensemble projects employing the physical work investigated throughout the term.

THEA 5215 - Text Analysis for Actors I
Credits: 2
Fundamentals of decoding play texts, from reading and comprehension to personalized embodiment, in order to facilitate and render efficiently imaginative the move of the actor. Dramaturgical focus falls on realism texts from the 19th and 20th centuries.

THEA 5216 - Text Analysis for Actors II
Credits: 2
Decoding and embodying the texts of Shakespeare.

THEA 5221 - Scene Design I
Credits: 2
An introductory course for designers focusing on the communication skills (visual and verbal) necessary for collaborating with the director and the other artists in the theatre. Includes a design seminar that explores the text relative to its literary, musical, social, and historical influences.

THEA 5222 - Scene Design II
Credits: 2
An introductory course for designers focusing on the communication skills (visual and verbal) necessary for collaborating with the director and the other artists in the theatre. Includes a design seminar that explores the text relative to its literary, musical, social, and historical influences.

THEA 5223 - Costume Design I
Credits: 2
An introductory course for designers with emphasis on the application of design principles and the use of research materials.

THEA 5224 - Costume Design II
Credits: 2
An introductory course for designers with emphasis on the application of design principles and the use of research materials.

THEA 5225 - Lighting Design I
Credits: 2
The fundamentals of learning how to see, exploring the mind's eye, and painting with light. Includes translating

theatrical moments and music into lighting sketches, storyboards, and atmospheres, and developing points of view and approaches. Also, the fundamentals of the tools of the lighting designer and assistant skills and techniques.

THEA 5226 - Lighting Design II
Credits: 2
The fundamentals of learning how to see, exploring the mind's eye, and painting with light. Includes translating theatrical moments and music into lighting sketches, storyboards, and atmospheres, and developing points of view and approaches. Also, the fundamentals of the tools of the lighting designer and assistant skills and techniques.

THEA 5258 - Photoshop
Credits: 2
A continuation of the exploration of tools for computer image creation (e.g., AutoCAD, MiniCAD, and Adobe Photoshop) and their applications.

THEA 5259 - Advanced Design Skills
Credits: 2
Students learn advanced skills in theatrical design practice, including hand drafting, theatrical model-making, set sketching, and digital tablet drawing. Also, fashion illustration and an introduction to textiles.

THEA 5275 - Lighting Automation I
Credits: 2
Advanced study in the field of automated lighting and control systems.

THEA 5298 - Product Research and Development I
Credits: 2
Script analysis, background research, and performance design for the actor, designer, director, and dramaturg.

THEA 5299 - Production Research and Development II
Credits: 2
Script analysis, background research, and performance design for the actor, designer, director, and dramaturg.

THEA 5301 - Directed Study
Credits: 3
Directed study courses are not required and are taken only as needed; form and content are not predetermined. The student and the adviser decide what kind of activity or learning experience should occur. Before the end of the add-drop period, the student must arrange the course content and grading basis with the supervising faculty. Numbers are assigned to the student's year status rather than by the subject matter.

THEA 5303 - Acting I
Credits: 3
Focuses on defining a fundamental acting process, identifying behavioral blocks, channeling impulses into uncluttered and organic psychophysical connections, and using the text as a blueprint for action. Combines a mix of exercise, improvisation, and scene study with materials drawn from modern American realism and the early modernist plays of Ibsen, Strindberg, and Chekhov.

THEA 5304 - Acting II
Credits: 3
Focuses on defining a fundamental acting process, identifying behavioral blocks, channeling impulses into uncluttered and organic psychophysical connections, and using the text as a blueprint for action. Combines a mix of exercise, improvisation, and scene study with materials drawn from modern American realism and the early modernist plays of Ibsen, Strindberg, and Chekhov.

THEA 5319 - History of Design
Credits: 3
How and why do elements of design describe a culture? Students study design elements and their role in various historical cultures, including the relationships among fashion, art, architecture, and the decorative arts of selected time periods. For majors and nonmajors.

THEA 5321 - Topics in Design I: Lighting
Credits: 3
Presents approaches to lighting design and poses specific design problems for the students to solve, with attention given to color composition, cueing, and production values. Focuses on Vari-Lite, Robe, and Martin experimentation.

THEA 5351 - Scene Design III
Credits: 3
A continuation of the study of scene design incorporating individual class projects with the intensive study of style and genre.

THEA 5352 - Scene Design IV
Credits: 3
A continuation of the study of scene design incorporating individual class projects with the intensive study of style and genre.

THEA 5353 - Costume Design III
Credits: 3
An intermediate course with emphasis on play analysis, character relationships, and techniques of presentation.

THEA 5354 - Costume Design IV
Credits: 3
An intermediate course with emphasis on play analysis, character relationships, and techniques of presentation.

THEA 5355 - Lighting Design III
Credits: 3
Continued study in the art of lighting design. Explores advanced atmosphere creation, professional techniques, and specialized approaches. Professional assistantships are assigned to selected students.

THEA 5356 - Lighting Design IV
Credits: 3
Continued study in the art of lighting design. Advanced atmosphere creation, professional techniques, and specialized approaches are explored. Professional assistantships are assigned to select students.

THEA 5357 - Designing with Computers: Stage Photography
Credits: 3
An exploration of the tools for computer image creation (e.g., AutoCAD, MiniCAD, and Adobe Photoshop) and their applications.

THEA 5363 - Plot and Paper Preparation
Credits: 3
Focuses on developing skills the Graduate Lighting Designer needs to present an accurate and complete design package for installation.

THEA 5371 - Automated Lighting 2
Credits: 3
Students work with Vari-Lite, Robe, and Martin automated lighting fixtures while learning advanced programming skills.

THEA 5373 - Draping I
Credits: 3
A study of pattern making that utilizes the three-dimensional approach of draping fabric on a dress form and the approach of drafting patterns by formula. Students learn to drape a basic bodice, skirt, and collars, to create a basic sleeve pattern by formula, and to manipulate these patterns to achieve a variety of shapes.

THEA 5374 - Draping II
Credits: 3
Exploration of period dress from a draping point of view.

THEA 5375 - Theatre Technology 5: Lighting Automation
Credits: 3
Advanced studies in the field of automated lighting and control systems. Students will explore top brands of intelligent lighting equipment, learning to program and provide simple repair and upkeep of equipment.

THEA 5379 - Computer-Assisted Design I
Credits: 3
Students learn the fundamentals of computer-assisted design, using VectorWorks and Spotlight, in application for the theatre. Emphasizes 2-D work and includes 3-D work. Prerequisite: Knowledge of mechanical drawing and its conventions.

THEA 5380 - Computer-Assisted Design II
Credits: 3
Uses VectorWorks as the primary drafting software, with a focus on modeling scenic and lighting designs, organization of the drawing layouts, rendering techniques, and lighting-specific CAD tools.

THEA 5382 - Automated Lighting 3: Busking
Credits: 3
Focuses on creating a library of techniques that will permit the lighting designer to Busk.

THEA 5398 - Production Research and Development I
Credits: 3
Script analysis, background research, and performance design for actors, designers, and directors.

THEA 5399 - Production Research and Development II
Credits: 3
Script analysis, background research, and performance design for actors, designers, and directors.

Simmons School of Education and Human Development

General Information

The Annette Caldwell Simmons School of Education and Human Development comprises research institutes, undergraduate and graduate programs, and community enrichment and service centers that focus on teacher training, school leadership, higher education, dispute resolution, counseling, applied physiology and health management, sport management, sport performance leadership, and graduate liberal studies. The mission of the school is to integrate the theory, research and practice of education and human development; to promote academic rigor and interdisciplinary study; to prepare students for initial certification and professional practice; to advance knowledge through research, and to nurture collaboration across the academic community.

Undergraduate programs include a major and four minors in applied physiology and sport management and a major and a minor in educational studies. The school offers three doctoral degrees, eleven master's degrees and a number of graduate professional-preparation programs. Its academic departments include Teaching and Learning, Applied Physiology and Wellness, Education Policy and Leadership, Dispute Resolution and Counseling, and Graduate Liberal Studies.

The school is housed in Annette C. Simmons Hall and Harold C. Simmons Hall, which are two of SMU's several LEED-certified buildings. Key features include an integrated physiology laboratory; an applied physiology laboratory equipped with a data acquisition system, an environmental research chamber, and teaching pods; a cerebrovascular research lab; and the Center for Virtual Reality Learning Innovation that supports both research and teaching through the design and use of virtual reality, augmented reality and mixed reality simulations and resources, including virtual avatars.

In an annual awards ceremony, the Simmons School recognizes its students, faculty and staff members who are regarded as leaders among their peers. Awards are given to students who have excelled academically, demonstrated uncommon leadership or engaged in community service in unique and meaningful ways. Faculty and staff members who have distinguished themselves through research pursuits, teaching activities, or professional accomplishments are honored. Additionally, University alumni who have made significant contributions of their time and resources to the school during the year are recognized.

The Department of Teaching and Learning represents SMU's commitment to the professional development of educators through innovative, research-based undergraduate and graduate programs that are grounded behaviorist, cognitive, social-constructivist and sociocultural perspectives and approaches to scholarship. All Teaching and Learning programs prepare educators who are scholars and leaders, experts in high-quality differentiated instruction, and able to translate research into practice. The department's undergraduate and post-baccalaureate curricula prepare students for initial teacher certification. Master's programs provide a solid foundation in research and theory and encompass areas such as STEM, early and late literacy, special education, learning therapy, giftedness, Montessori education, bilingual education, ESL, urban education, and mathematics. A variety of enrichment opportunities serve the continuing education needs of practicing educators, and certification preparation programs are available in the areas of reading specialization and learning therapy. Department faculty engage in high-quality research that combines quantitative and qualitative methodologies, contributes to scholarship, and influences pedagogical practices in early childhood through grade-12 schools. The Teacher Development Studio trains students to become effective teachers through the use of computer avatars that simulate K-12 classroom environments.

The Department of Applied Physiology and Wellness offers undergraduate and graduate degrees. The undergraduate B.S. in applied physiology and sport management offers concentration/specializations in applied physiology and health management, sport management, and sport performance leadership. Graduate programs include an M.S. in sport management and an M.S. in health promotion management, both of which are offered in collaboration with SMU's Cox School of Business, and a Ph.D. in education with an emphasis in applied physiology. The department also offers sports and fitness activity courses that are available as electives. The undergraduate and graduate programs have access to the department's four laboratories. The Applied Physiology Laboratory is a teaching laboratory that utilizes experiential learning and comprises three complete and functional exercise physiology laboratories (teaching pods), a biochemistry lab, in-ground force plates, and a temperature- and humidity-controlled environmental chamber. The Cerebrovascular Research Laboratory examines the relationship between brain flow

regulation and functional outcomes in healthy and diseased or injured individuals. The Integrative Physiology Laboratory engages in research that measures cardiovascular, neural and thermoregulatory function in human health and disease. The Locomotor Performance Laboratory specializes in terrestrial locomotion through research and study of the relationship between muscle function and metabolic energy expenditure and performance.

Institutes, Centers and Research

Center on Research and Evaluation

www.smu.edu/CORE
Annie Wright, **Executive Director**

CORE's mission is to improve the well-being of children, adults and families through knowledge creation and dissemination and through evaluations of programs designed to enhance positive outcomes for individuals and communities. This interaction between knowledge creation and the work of organizations and individuals is essential to the efforts of organizations to improve lives and communities. CORE adheres to principles of science to understand how best to improve education and human development and believes that evidence exists to substantially increase the number of individuals who are equipped to make a positive contribution to society. The center supports Simmons faculty members in their research efforts and conducts third-party evaluations for nonprofit and school clients and internal SMU entities. CORE provides real-world opportunities for undergraduate and graduate students to participate in research and evaluation.

Research in Mathematics Education

www.smu.edu/RME
Leanne Ketterlin Geller, **Director**

RME conducts and disseminates high quality, evidence-based research to improve students' mathematics and STEM performance in Texas and across the country. Formed in 2011 under the direction of Dr. Leanne Ketterlin Geller, RME is committed to engaging in research and outreach that will make a significant and lasting difference at the student, classroom, school, district, state and national levels. RME's mission is to cultivate positive change by educating and empowering teachers and administrators through the provision of evidence-based practices and systems to support mathematics and, more broadly, STEM achievement through academic growth and development of all students. Key focal areas include

- Creating systems of formative assessment to inform teacher decision-making.
- Designing evidence-based interventions for students struggling in mathematics.
- Designing and delivering professional development to support teachers' and administrators' implementation of best practices.
- Offering a dynamic community where researchers and educators can collaborate and share ideas and resources.

RME's externally funded research and development budget has grown beyond $15 million. Efforts by RME researchers have directly impacted nearly a million students across Texas and the nation. Through participation in research activities and conferences, engagement with professional development courses, dissemination of materials through the RME website, and collaborations with other organizations and publications, RME has reached thousands of educators since 2011.

RME's faculty affiliates are members of the Simmons School's Department of Education Policy and Leadership and Department of Teaching and Learning and disseminate their research findings locally, nationally and globally.

The Budd Center: Involving Communities in Education

www.smu.edu/CCE
Regina Nippert, **Executive Director**

The mission of The Budd Center is to equip schools and nonprofits with the tools and information necessary to work collaboratively on projects that address the extraordinary social, emotional and educational needs of children living in poverty. The Budd Center uses the following strategies to accomplish its mission:

- Develops processes to drive collaboration between school systems, nonprofits and SMU.

- Works with nonprofits in Professional Learning Communities where they use individualized student information to create curricula and targeted intervention plans.
- Connects SMU faculty and students to enriching teaching and learning experiences.

Center for Family Counseling

www.smu.edu/FamilyCounseling
Terra Wagner, **Clinic Director**

The Center for Family Counseling offers a variety of mental health counseling services to members of the community, including adults, adolescents, children, groups, couples, and families struggling with personal, social or career-related issues, while providing SMU graduate counseling students with meaningful training experience via supervised therapeutic interactions.

College Access

www.smu.edu/CollegeAccess

Since 1966, SMU College Access has assisted low-income students, potential first-generation college students, and underrepresented students prepare for college success. College Access programs include Upward Bound, Upward Bound Math Science, Talent Search, McNair Scholars, and the College Knowledge.

Institute for Leadership Impact

http://www.smu.edu/ILI
Dr. Eric G Bing, **Executive Director**

The Institute for Leadership Impact helps emerging and established leaders in education, health, and social enterprise develop the skill necessary to lead organizations and solve real-world problems. The Institute was founded in 2016 with the mission of increasing access to practical leadership-development opportunities specifically designed for leaders who seek to create social impact in education, public health, social services, and related systems. The Institute focuses on helping individuals, teams, and organizations maximize their leadership abilities through a variety of in-person, online, and hybrid learning formats.

The Center for VR Learning Innovation

www.smu.edu/Simmons/Research/Center-for-Virtual-Reality-Learning-Innovation
Anthony Cuevas, **Director**

The Center for Virtual Reality (VR) Learning Innovation is dedicated to the advancement of interdisciplinary research and innovation in augmented reality (AR), virtual reality (VR), and game-based learning (GBL) for education, health, and human development applications. The Center focuses on educational interactions in immersive augmented and virtual reality environments using commercially available technologies and supports digital learning for Simmons research and online/hybrid courses.

Applied Physiology and Wellness

www.smu.edu/apsm

Professor Lynn Romejko Jacobs, **Department Chair**

Professors: Eric Bing, Lynn Romejko Jacobs, Peter Weyand
Associate Professor: Scott L. Davis
Clinical Associate Professors: Megan Murphy, David Bertrand
Clinical Assistant Professors: Sarah Brown, Peter Carton, Ryan Kota, Brandon Mastromartino
Senior Lecturers: Caitlin Anderson, Brian Fennig, Donna Gober
Lecturers: Kim Baker, Piotr Chelstowski, Laura Robinson-Doyle, Bradley Warren

General Information

The Department of Applied Physiology and Wellness offers undergraduate and graduate programs. The B.S. with a major in applied physiology and sport management offers three specializations/concentrations: applied physiology and health management, sport management, and sport performance leadership. The department also offers minors in applied physiology, applied physiology and health management, sport management, and sport performance leadership. Its graduate programs include an M.S. in sport management, an M.S. in health promotion management, and a Ph.D. in education, with an emphasis in applied physiology. Additionally, the department offers sports and fitness activity courses.

Admission Requirements and Application Process

To apply for admission, students first must meet minimum GPA criteria and complete prerequisite requirements before submitting the application for admission. Admission can be competitive due to space availability and is based, as well, on the student's professional behavior in the two subset courses. The APSM faculty will also consider an applicant's overall SMU GPA in the admission decision process. Students who are not accepted may reapply for admission during another term. For consideration, students must

- Have a minimum 2.000 SMU cumulative GPA. .
- Complete a minimum of 30 credit hours (currently enrolled hours may be included).
- Complete the two subset courses required for the selected concentration with a minimum of C- in each course.

Specialization	*Subset*
Applied Physiology and Health Management	APSM 2441/BIOL 2441 and one of the following: APSM 2442/BIOL 2442, APSM 3332, APSM 3340, APSM 3343, or APSM 3351
Concentrations	
Sport Management	APSM 2310 and one of the following: APSM 3322, APSM 3332, APSM 3340 or APSM 3372
Sport Performance Leadership	APSM 2340 and one of the following: APSM 3315 or APSM 3322 (all sections taught by full-time SPL faculty including APSM 2340)

- Attend a required orientation meeting for prospective majors.
- Submit a completed general application form for the APSM major program.
- Declare an area of concentration.

Students approved for admission by the faculty are assigned an adviser; they may continue to take core courses and/or courses in their concentration of interest.

Degree Requirements

The applicable requirements of the major are those in effect during the academic year in which the major is declared or those of a subsequent academic year. If an APSM major makes a grade below *C*- in any APSM course counting

towards the major and or a concentration, the student must retake the course; a grade below *C*- will not apply toward the major. The Simmons School also requires a cumulative GPA of 2.000 on all courses attempted for completion of a major or minor. All courses attempted that could count toward the major or minor are included in determining the major or minor GPA. Majors must be officially declared (or changed) through the Office of the Dean.

Student Responsibility for Completion of Degree Plan. Students are required to schedule a degree-plan conference with an APSM adviser at the time of their acceptance into the major. **Note:** Each term, students are encouraged to attend an advising session with their assigned adviser. Detailed information concerning academic regulations and degree requirements is provided at that time. Students are individually responsible for knowing and complying with all regulations and requirements that may apply to the APSM program.

Honor Code Violations. An APSM major who commits an honor code violation while enrolled in any of the APSM courses could be expelled from the program and not allowed to continue and complete the major.

Application for a Degree. Students must file an Application for Candidacy to Graduate with their school's records office no later than the last day of the first week of the term in which they will complete all degree requirements. Applications are filed through my.SMU Student Homepage by the deadline date on the Official University Calendar.

Credits. A candidate for a Simmons School APSM degree must have

- A minimum of 120 academic credit hours and 2 Wellness hours, including University-wide requirements and requirements for the APSM major.
- A minimum of 42 advanced credit hours (3000 level or above).
- A maximum of two Wellness hours towards the degree.
- A maximum of six credit hours of internship for Sport Management and Applied Physiology & Health Management students.
- A maximum of three credit hours of Experiential Learning Labs (SPL students only).

Grades. A candidate for a Simmons School APSM degree must have

- A minimum cumulative GPA of 2.000 on all work attempted through enrollment at SMU.
- A minimum cumulative GPA of 2.000 on all equivalent work attempted elsewhere, if any.
- A minimum grade of *C*- on any APSM course taken in fulfillment of major or minor requirements.
- A minimum cumulative GPA of 2.000 on all work attempted for completion of major or minor requirements.
- No more than 12 hours with a grade of *P* (Pass).

Minimum Credit Requirement. A candidate for a B.S. degree in APSM from the Simmons School must take the following hours as SMU credit; that is, the credit hours must be earned in SMU courses or SMU-approved international programs.

- A minimum of 60 credit hours.
- A minimum of 18 credit hours of advanced work in the major.

Multiple Specializations/Concentrations. A student will pursue one of three specializations/concentrations within the APSM major in the Simmons School by completing all requirements for the specialization/concentration, along with the general requirements for a B.S. degree in APSM. Students may pursue a minor in another specialization/concentration within the APSM concentrations.

Additional Degrees. A student may also concurrently pursue a program of study leading to a degree from the Simmons School along with a degree (or degrees) from the Dedman College of Humanities and Sciences, Cox School of Business, Meadows School of the Arts, or Lyle School of Engineering. The student must obtain approval for the proposed program of study from the deans of the schools involved.

Personal Responsibility and Wellness (PRW)

www.smu.edu/wellness

Students on the Common Curriculum may earn up to two PRW2 credits as general electives towards the 120 minimum required degree hours. The courses will be graded on the ABC grading scheme and included in the GPA. The personal responsibility and wellness courses reflect the University's philosophy that a well-rounded education

enhances the physical and mental well-being of the student. PRW courses help students to become more aware of the comprehensive nature of wellness; to understand the importance of personal life management; to respond positively to imbalances in their lifestyles; to become familiar with campus wellness facilities, equipment and services; to commit to a lifetime of physical activity and physical fitness; and to utilize opportunities the University provides and promotes in a variety of wellness areas.

Departmental Distinction and Honors

A student may be awarded departmental distinction and honors regardless of eligibility for graduation honors based on specific criteria established by the department. This award is conferred by the Department of Applied Physiology and Wellness at Honors Convocation every spring.

Applied Physiology and Sport Management, B.S.

The APSM curriculum establishes the scientific and biological basis of health, fitness and human performance; introduces the business principles and skills necessary for management careers in the sport, health, coaching and fitness industries; and familiarizes students with the legal and ethical aspects of the fitness, health, coaching and sport industries. The program leads to a B.S. degree with a required concentration/specialization in one of three curricular areas: applied physiology and health management, sport management, or sport performance leadership. The specializations/concentrations require coursework in the physiological sciences and business and are described below.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Applied Physiology and Sport Management, B.S. with a Concentration in Sport Management

Due to the explosion of interest in sport as a business, curricula to prepare management professionals are growing in number and prevalence. Further, as the business of sport becomes more complex, the preparation of professionals has become increasingly sophisticated, relying heavily on successful business theories and principles. The academic discipline of sport management draws on significant research and practices from organization and information management systems, including budgeting, accounting, managing events, managing personnel and facilities, marketing, controlling, directing, evaluating, leading, writing, selling, working with media, developing publications, keeping game notes and statistics, interviewing, promoting, advertising and fundraising. The curriculum prepares students for careers in professional, collegiate or amateur sport organization leadership; representation of professional athletes; management of commercial health and fitness facilities, sport public relations; and sport facility and event management. The program culminates in a research methodology course and an internship.

Requirements for the Concentration in Sport Management (42 Credit Hours)

APSM 2310 - Contemporary Issues in Sport Management
APSM 3311 - Applied Exercise Physiology
APSM 3322 - Functional Biomechanics
APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
APSM 3340 - Applied Management Skills in Sports and Fitness
APSM 3372 - Advanced Public Relations in Sport
APSM 4315 - Senior Project

APSM 4345 - Sports Marketing
or
MKTG 4345 - Sports Marketing *(Cox majors only)*

APSM 4371 - Revenue in Sports

APSM 4372 - Sport Facility and Event Management
APSM 4373 - Sport Management Practicum
APSM 4375 - Sports Data and Analytics
APSM 4672 - Sport Management Internship

Total for the Major Only: 42 Credit Hours

Applied Physiology and Sport Management, B.S. with a Concentration in Sport Performance Leadership

The concentration in sport performance leadership provides students with academic and experiential training pertinent to the leadership, coaching, and instruction of sport. Graduates of the program are equipped with an evidence-based scientific foundation for their leadership and instructional aspirations. The program serves two objectives:

1. To enhance understanding of scientific evidence for human performance improvement in the context of sport.
2. To provide a philosophical and historical foundation for successful, safe and ethical athletic coaching.

Several features distinguish the program from those at other institutions. Most programs include classes on teaching the fundamentals of sport. Fewer programs apply the psychological component of dealing with motivation, confidence, intensity, focus and emotional well-being. Rarely do programs address the communicative aspect of coaching. SMU's program in sport performance leadership addresses all three components, equipping students with a unique and dynamic skill set to offer the coaching marketplace. Students also complete three hours of experiential learning. This type of exposure to real-world coaching helps to assure superior preparation for graduates of the program.

Requirements for the Concentration in Sport Preformance Leadership (21 Credit Hours)

APSM 2340 - Coaching and Leadership for Performance
APSM 3311 - Applied Exercise Physiology
APSM 3322 - Functional Biomechanics
APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
APSM 4190/APSM 4290/APSM 4390 - Experiential Learning Lab (3 hours required)
APSM 4315 - Senior Project
APSM 4385 - Exercise Program Design

Seven courses from the following (21 Credit Hours):

(at least two courses must be at the 4000 level or higher)

APSM 3301 - Rules and Regulations of Sport
APSM 3315 - Communication in Sport
APSM 3333 - Coaching Team Sports
APSM 3351 - Nutrition
APSM 3371 - Diversity and Inclusion in Sport
APSM 4300 - Advanced Coaching and Leadership
APSM 4310 - Psychology of Sport
APSM 4370 - Coaching Seminar: Special Topics
APSM 4380 - Technology and Sport

Total for the Major Only: 42 Credit Hours

Applied Physiology and Sport Management, B.S. with a Specialization in Applied Physiology and Health Management

The applied physiology and health management specialization ensures that students are able to develop effective lifestyle prescriptions that include research-based training methods, to design and manage fitness, wellness, and health facilities, and to serve in meaningful professions within the health management and allied health industries.

Woven throughout the program are experiential learning opportunities as well as science courses structured in accordance with evidence-based practices and augmented by reviews of current research. The course offerings within this specialization focus on holistic fitness and health outcomes and are formulated and presented around the central theme of evidence-based practice. This strategy equips students with the analytic skills necessary to evaluate and properly incorporate research results into professional practice. The program provides students with the solid research foundation that is necessary for leaders, educators and practitioners to contribute to the prevention of chronic diseases that plague society and affect the health care system and prepares students for graduate programs in the allied health professions (i.e., physical therapy, nursing, physician assistant).

Requirements for the Specialization in Applied Physiology and Health Management (36 Credit Hours)

APSM 2441/BIOL 2441 - Human Anatomy and Physiology I with Laboratory
APSM 2442/BIOL 2442 - Human Anatomy and Physiology II with Laboratory
APSM 3321 - Biomechanics
APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
APSM 3340 - Applied Management Skills in Sports and Fitness
APSM 3343 - Health Promotion Practice
APSM 3411 - Exercise Physiology with Laboratory
APSM 4305 - Senior Project APHM
APSM 4351 - Fitness and Health Enterprise
APSM 4610 - Applied Physiology and Enterprise Internship

Elective Courses (8-9 Credit Hours)

At least three courses from the following:

APSM 3351 - Nutrition
APSM 4312 - Physiology in Health and Disease
APSM 4344 - Pandemics! The Science of Disease Spread, Prevention, and Control *(spring semesters, odd years only)*
APSM 4349 - Health Care: From Policy to Practice
APSM 4355 - Creating Global and Public Health Impact *(spring semesters, even years only)*

APSM 4261 - Research Practicum in Applied Physiology
or
APSM 4361 - Research Practicum in Applied Physiology

Total for the Major Only: 44-45 Credit Hours

Applied Physiology and Health Management Minor

A candidate for a degree may also complete the requirements of a minor, either in the Simmons School or in one of the other undergraduate schools of the University. Coursework intended to apply toward a minor may not be taken pass/fail. If an APSM minor earns a grade below C- in any APSM course, the student must retake the course. In addition, the Simmons School requires a cumulative GPA of 2.000 on all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. The applied physiology and health management minor may be declared upon enrollment of APSM 2441. Minors must be officially declared (or changed) through the Office of the Dean.

Requirements for the Minor

APSM 2441 - Human Anatomy and Physiology I with Laboratory
APSM 2442 - Human Anatomy and Physiology II with Laboratory
APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management (recommended)
PSYC 3360 - Health Psychology (recommended)

Choose two courses from the following:

APSM 3311 - Applied Exercise Physiology

APSM 3322 - Functional Biomechanics
APSM 3351 - Nutrition
APSM 4385 - Exercise Program Design

Choose two courses from the following:

APSM 3343 - Health Promotion Practice
APSM 4349 - Health Care: From Policy to Practice
APSM 4355 - Creating Global and Public Health Impact
APSM 4351 - Fitness and Health Enterprise

Total: 20 Credit Hours

Applied Physiology Minor

A candidate for a degree may also complete the requirements of a minor, either in the Simmons School or in one of the other undergraduate schools of the University. Coursework intended to apply toward a minor may not be taken pass/fail. If an APSM minor earns a grade below C- in any APSM course, the student must retake the course. In addition, the Simmons School requires a cumulative GPA of 2.000 on all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. The applied physiology minor may be declared upon enrollment of APSM 2441. Minors must be officially declared (or changed) through the Simmons Office of Records.

Requirements for the Minor

APSM 2441 - Human Anatomy and Physiology I with Laboratory
APSM 2442 - Human Anatomy and Physiology II with Laboratory
APSM 3411 - Exercise Physiology with Laboratory
APSM 3321 - Biomechanics
APSM 3351 - Nutrition
APSM 4312 - Physiology in Health and Disease
APSM 4349 - Health Care: From Policy to Practice (recommended)

Total: 21 Credit Hours

Sport Management Minor

A candidate for a degree may also complete the requirements of a minor, either in the Simmons School or in one of the other undergraduate schools of the University. Coursework intended to apply toward a minor may not be taken pass/fail. If an APSM minor earns a grade below C- in any APSM course, the student must retake the course. In addition, the Simmons School requires a cumulative GPA of 2.000 on all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. The sport management minor may be declared upon enrollment of APSM 2310. Minors must be officially declared (or changed) through the Simmons Office of Records.

Requirements for the Minor

Core Courses (9 Credit Hours)

APSM 2310 - Contemporary Issues in Sport Management
APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
APSM 3340 - Applied Management Skills in Sports and Fitness

Choose three electives from the following: (9 Credit Hours)

APSM 3372 - Advanced Public Relations in Sport

APSM 4345 - Sports Marketing
or

MKTG 4345 - Sports Marketing

APSM 4371 - Revenue in Sports
APSM 4372 - Sport Facility and Event Management
APSM 4373 - Sport Management Practicum

Total: 18 Credit Hours

Sport Performance Leadership Minor

A candidate for a degree may also complete the requirements of a minor, either in the Simmons School or in one of the other undergraduate schools of the University. Coursework intended to apply toward a minor may not be taken pass/fail. If an APSM minor earns a grade below C- in any APSM course, the student must retake the course. In addition, the Simmons School requires a cumulative GPA of 2.000 on all courses attempted for completion of a major or minor. All courses attempted that could count toward the major/minor are included in determining the major/minor GPA. The sport performance leadership minor may be declared upon enrollment of APSM 2340. Minors must be officially declared (or changed) through the Simmons Office of Records.

Requirements for the Minor

Core Courses (9 Credit Hours)

APSM 2340 - Coaching and Leadership for Performance
APSM 3311 - Applied Exercise Physiology
APSM 3322 - Functional Biomechanics

Choose three electives from the following (9 Credit Hours)

(at least two courses must be at the 4000 level or higher)

APSM 3301 - Rules and Regulations of Sport
APSM 3315 - Communication in Sport
APSM 3333 - Coaching Team Sports
APSM 3371 - Diversity and Inclusion in Sport
APSM 4300 - Advanced Coaching and Leadership
APSM 4310 - Psychology of Sport
APSM 4370 - Coaching Seminar: Special Topics
APSM 4380 - Technology and Sport
APSM 4385 - Exercise Program Design

Total: 18 Credit Hours

Applied Physiology and Sport Management Courses

Elective Courses These courses are elective courses offered to APSM students with faculty approval.	APSM 4159, APSM 4259, APSM 4359, APSM 5160, APSM 5260, APSM 5261, APSM 5360, APSM 5361, APSM 5362, APSM 5363, APSM 5364, APSM 5461, APSM 5561, APSM 5661

APSM 2310 - Contemporary Issues in Sport Management
Credits: 3
Explores the functional areas of business, management principles, contemporary issues, and future considerations for organizations within the fitness and sports industries. Gateway course for sport management concentration majors; successful completion is mandatory to be invited into the program. Recommended corequisite: APSM 3322, APSM 3332, or APSM 3340. Reserved for students with fewer than 90 credit hours.

APSM 2340 - Coaching and Leadership for Performance
Credits: 3
Examines what coaches do, the qualities of expert coaches, strategies for effective and cohesive programs, a sound

coaching philosophy, and the art and science of coaching. Serves as the gateway course to the major. Students must complete this course with a C– or better in order to qualify for the sport performance leadership major. Recommended corequisite: APSM 3300, APSM 3315, APSM 3322, APSM 3332, or APSM 3351. Reserved for students with fewer than 90 credit hours.

APSM 2441 - Human Anatomy and Physiology I with Laboratory
Credits: 4
A systemic approach to the study of the human body, with a focus on the anatomical structure and function of the human neuromusculoskeletal systems. Gateway course for applied physiology and enterprise concentration majors; successful completion is mandatory for admission to the program. Lab fee: $30. Prerequisite: Reserved for students who have fewer than 90 credit hours or have the instructor's approval. APSM 2441 is cross-listed with BIOL 2441; you may not receive credit for both APSM 2441 and BIOL 2441.

APSM 2442 - Human Anatomy and Physiology II with Laboratory
Credits: 4
Examines the gross anatomy and physiology of the endocrine, cardiovascular, respiratory, digestive, and urinary systems, and their relationship with human health and performance. Lab fee: $30. Prerequisite: APSM 2441. APSM 2442 is cross-listed with BIOL 2442; you may not receive credit for both APSM 2442 and BIOL 2442.

APSM 3300 - Anatomy for Movement
Credits: 3
Explores the anatomy of bones and muscles and their role in normal muscle function and common gross motor movements. Cannot be taken by APSM majors in APHM concentration or by APHM or AP minors.

APSM 3301 - Rules and Regulations of Sport
Credits: 3
Explores the rules, interpretation, mechanics, and philosophies of officiating selected sports on a basic level. Sports likely to be covered include (but are not limited to) football, volleyball, basketball, and soccer.

APSM 3311 - Applied Exercise Physiology
Credits: 3
Uses an organ system approach to examine the body's responses and adaptations to exercise and movement. Recommended: APSM 3322.

APSM 3315 - Communication in Sport
Credits: 3
Facilitates the improvement of communication skills for coaches through the introduction of various communication styles and techniques and furthers an understanding of conflict resolution and negotiation.

APSM 3321 - Biomechanics
Credits: 3
Introduces the mechanical basis of function and dysfunction in human movement. Newtonian mechanics and musculoskeletal biology are integrated to provide the necessary foundation for clinical and performance-based professions. Course fee: $30. Recommended: PHYS 1303, MATH 1304. Prerequisite: APSM 2441. APSM majors and minors only.

APSM 3322 - Functional Biomechanics
Credits: 3
Introduces the scientific basis of support and motion in humans and other vertebrate animals, drawing equally on musculoskeletal biology and Newtonian mechanics. Prerequisite: APSM 2310 or APSM 2340.

APSM 3332 - Legal and Ethical Aspects of Applied Physiology and Sports Management
Credits: 3
Creates an important awareness of the legal and ethical implications of some of the situations that can arise in the

careers of sports, coaching, and health and fitness professionals. These legal and ethical aspects include those related to safety, risk management, personnel, contracts, constitutional rights, employment issues, discrimination concerns, and collective bargaining and unions. Prerequisite: APSM 2310, APSM 2340, or APSM 2441.

APSM 3333 - Coaching Team Sports
Credits: 3
Develops fundamental instructional techniques utilized for coaching various team sports. Emphasis is placed on the analysis of skills, discussion of developmental appropriateness, organization, key terms, and other teaching/coaching strategies. Sports likely to be covered include (but are not limited to) football, volleyball, basketball, and soccer.

APSM 3340 - Applied Management Skills in Sports and Fitness
Credits: 3
An extensive study of organizational functions, methods of operation, and types of ownership. Also, the role of organizations in contemporary society as they relate to fitness and sport enterprises today. Prerequisite: APSM 2310 or APSM 2441.

APSM 3343 - Health Promotion Practice
Credits: 3
Focuses on understanding, influencing, and modifying health status and behaviors in populations. Explores the assessment, planning, execution, and evaluation of health promotion programming, as well as different applications and delivery methods of health promotion.

APSM 3351 - Nutrition
Credits: 3
Examines the role that nutrition plays in health and optimal function, including the impact and research of nutrition on obesity, heart disease, stroke, cancer, eating disorders, and specific populations. Explores food technology--including microorganisms in food-borne illness; advantages and disadvantages of canning; pasteurization; use of preservatives; the use of irradiation as a preservative; the process, risks, and benefits of genetic modification; food additives; and pesticides' safety concerns.

APSM 3371 - Diversity and Inclusion in Sport
Credits: 3
Explores how historical and contemporary practices in society have shaped the opportunities and experiences of various cultural groupings in sport. In particular, the course focuses on diversity issues in sport coaching as they relate to race, ethnicity, gender, socioeconomic class, sexuality, religion, and ability/disability.

APSM 3372 - Advanced Public Relations in Sport
Credits: 3
Examines the role of public relations specific to the industry of sport, focusing on the conceptual, strategic, and technical understanding of the operation and business of public relations in sport communication. Prerequisite: APSM 2310.

APSM 3411 - Exercise Physiology with Laboratory
Credits: 4
Examines the physiological mechanisms underlying human movement. Topics include muscle physiology, respiration, cardiac function, circulation, energy metabolism, and their application to training. Students are expected to have a basic understanding of algebra, general chemistry, and anatomy and/or physiology prior to enrollment. Lab fee: $30. Prerequisites: APSM 2441, APSM 2442.

APSM 4159 - Independent Study in Applied Physiology and Sport Management
Credits: 1
For APSM majors or minors seeking to increase their experiential presence and/or research capabilities. Enrollment is by faculty invitation only. Prerequisite: APSM 2310, APSM 2340, or APSM 2441. Minimum 60 credit hours

APSM 4160 - Teaching Practicum
Credits: 1
Students assist the instructor in conducting a course in which they have previously excelled. Maximum of 3 credit hours allowed. Prerequisites: Junior or senior standing, A- or better for any previous enrollment in this course, and instructor approval. APSM majors or minors only.

APSM 4190 - Experiential Learning Lab
Credits: 1
Explores practical and theoretical aspects of the discipline with hands-on experience in the sport-coaching industry. Possible topics and/or activities include shadowing a coach, working on a community outreach project, and satisfying professional certification requirements. A total of 3 credit hours from among APSM 4190, APSM 4290, and APSM 4390 are required for the sport performance leadership concentration. Prerequisites: Instructor approval and junior standing (minimum of 60+ hours).

APSM 4259 - Independent Study in Applied Physiology and Sport Management
Credits: 2
For APSM majors or minors seeking to increase their experiential presence and/or research capabilities. Enrollment is by faculty invitation only. Prerequisite: APSM 2310, APSM 2340, or APSM 2441. Minimum 60 credit hours.

APSM 4260 - Teaching Practicum
Credits: 2
Students assist the instructor in conducting a course in which they have previously excelled. Maximum of 3 credit hours allowed. Prerequisites: Junior or senior standing, A- or better for any previous enrollment in this course, and instructor approval. APSM majors or minors only.

APSM 4261 - Research Practicum in Applied Physiology
Credits: 2
Intended for students considering a career in laboratory-based biological research. Students conduct supervised research with an APSM research faculty member in his/her laboratory. Enrollment is by invitation from an APSM research faculty member in whose lab the research is conducted. Prerequisites: APSM 2441, APSM 2442, APSM 3311.

APSM 4290 - Experiential Learning Lab
Credits: 2
Explores practical and theoretical aspects of the discipline with hands-on experience in the sport-coaching industry. Possible topics and/or activities include shadowing a coach, working on a community outreach project, and satisfying professional certification requirements. A total of 3 credit hours from among APSM 4190, APSM 4290, and APSM 4390 are required for the sport performance leadership concentration. Prerequisites: Instructor approval and junior standing (minimum of 60+ hours).

APSM 4300 - Advanced Coaching and Leadership
Credits: 3
Introduces a conscious, introspective, and holistic approach to coaching and leading others. Specific emphasis is placed on the importance of self-knowledge, mindfulness, and creating positive team environments. Includes health, fitness, and wilderness experiential components. Course fee: $1,000 covers and insures room and board at SMU's campus in Taos, outdoor rental equipment, and payment for wilderness guide(s).

APSM 4305 - Senior Project APHM
Credits: 3
An overview of the concepts and procedures necessary for understanding scientific research, designing research projects, and interpreting research findings. Course content focuses on the steps involved in conducting a research project, including identification of research questions, developing hypotheses when appropriate, conducting background literature review, selecting appropriate research design, analyzing data, and reporting research findings. This is a writing intensive course involving the preparation of a well-written research proposal in topics related to

physiology, medicine, health, exercise, and sports science. Prerequisites: STAT 2331. Reserved for APHM specialization majors, senior standing only.

APSM 4310 - Psychology of Sport
Credits: 3
Explores various psychological theories and research related to sport and exercise behavior.

APSM 4312 - Physiology in Health and Disease
Credits: 3
Addresses the hemodynamic principles, neural and local regulatory mechanisms, and molecular pathways associated with the physiologic adaptations to exercise training and pathological alterations associated with disease. Students gain laboratory experience and participate in discussions related to current research topics in the field of exercise. Course fee: $30. Prerequisites: APSM 2441, APSM 2442, APSM 3411. Restricted to APSM majors and minors only.

APSM 4315 - Senior Project
Credits: 3
Teaches the process of formal inquiry by utilizing a team format to plan, execute, and report results regarding a scientific question of interest to the group. Prerequisites: STAT 2331 is required for applied physiology and health management and sport management concentrations. Reserved for APSM majors. Senior standing only (at least 90 credit hours required).

APSM 4344 - Pandemics! The Science of Disease Spread, Prevention, and Control
Credits: 3
Explores the science of epidemic and pandemic prevention, treatment, and control, and examines what we've learned from pandemics across time, ranging from the bubonic plague to COVID 19.

APSM 4345 - Sports Marketing
Credits: 3
This course provides a strategic framework to understand market dynamics, trends, consumer behavior, products, delivery systems, and marketing and promotional strategies that shape and drive the sports marketing industry. Prerequisite: APSM 2310.

APSM 4349 - Health Care: From Policy to Practice
Credits: 3
Explores the development and transformation of health care policy; the environmental factors that influence the delivery of health care services; and the financial, economic, and operational issues related to health care. Prerequisite: APSM 2441.

APSM 4350 - Motor Learning
Credits: 3
Focuses on the principles of learning as they relate to the acquisition and development of motor skills, motor performance, and motor learning throughout life. Also covers learning in the context of sports and performance-related skills acquisition.

APSM 4351 - Fitness and Health Enterprise
Credits: 3
Prepares students who aspire to careers in the health and fitness industries. Topics include the fundamentals of leadership and management. Requires visits to off-campus fitness and health-related facilities for which students must provide their own transportation. Prerequisites: APSM 2441 and junior-year standing.

APSM 4355 - Creating Global and Public Health Impact
Credits: 3
Interdisciplinary approach to creating sustainable impact in global, public, and population health. Taught by

engaging discussions, case studies, and helping local health organizations solve difficult institutional and community challenges. Prerequisite: Instructor consent required.

APSM 4359 - Independent Study in Applied Physiology and Sport Management
Credits: 3
For APSM majors or minors seeking to increase their experiential presence and/or research capabilities. Enrollment is by faculty invitation only. Prerequisite: APSM 2310, APSM 2340, or APSM 2441. Minimum 60 credit hours.

APSM 4360 - Teaching Practicum
Credits: 3
Students assist the instructor in conducting a course in which they have previously excelled. Maximum of 3 credit hours allowed. Prerequisites: Junior or senior standing, A- or better for any previous enrollment in this course, and instructor approval. APSM majors or minors only.

APSM 4361 - Research Practicum in Applied Physiology
Credits: 3
Intended for students considering a career in laboratory-based biological research. Students conduct supervised research with an APSM research faculty member in his/her laboratory. Enrollment is by invitation from an APSM research faculty member in whose lab the research is conducted. Prerequisites: APSM 2441, APSM 2442, APSM 3311.

APSM 4362 - Directed Studies in Applied Physiology
Credits: 3
This directed research course is necessary to be considered for departmental distinction. Students must have an APSM faculty sponsor and a written structured course plan to enroll. Prerequisites: Instructor invitation, APSM 4361, senior standing, 3.000 overall GPA, and 3.500 GPA within the major.

APSM 4363 - Directed Studies in Sport Management
Credits: 3
This directed research course is necessary to be considered for departmental distinction. Students must have an APSM faculty sponsor and a written structured course plan to enroll. Prerequisites: Instructor approval, APSM 4359, senior standing, 3.000 overall GPA, and 3.500 GPA within the major.

APSM 4364 - Directed Studies in Applied Physiology and Enterprise
Credits: 3
This directed research course is necessary to be considered for departmental distinction. Students must have an APSM faculty sponsor and a written structured course plan to enroll. Prerequisites: Instructor approval; APSM 4159, APSM 4259, or APSM 4359; senior standing; 3.000 overall GPA; and 3.500 GPA within the major.

APSM 4370 - Coaching Seminar: Special Topics
Credits: 3
A discussion-based course examining contemporary issues, emerging research, and key standards in sport coaching. Example topics may include (but are not limited to) long-term athlete development, coach as an administrator, ethics, and youth sport participation.

APSM 4371 - Revenue in Sports
Credits: 3
This course covers sports industry revenue topics, including professional league and team revenue generation, franchise ownership and valuation, corporate sponsorship, sports media revenue, and industry selling practices. Prerequisite: APSM 2310.

APSM 4372 - Sport Facility and Event Management
Credits: 3
This course examines the principles of sport facility planning, design, and management. Topics include venue

design, operations, revenue streams, budgeting, personnel, security, media relations, crisis control, and legal considerations. Prerequisite: APSM 2310.

APSM 4373 - Sport Management Practicum
Credits: 3
Prepares students for a career in the sport industry, including sport management. Students assess and clarify their personal skills and competencies to better align with their career goals within the sport marketplace. (Students are required to provide their own transportation to and from their assigned off-campus sports-related events.) Prerequisite: Junior standing. Recommended: APSM 3372, APSM 4345, APSM 4371, APSM 4372.

APSM 4375 - Sports Data and Analytics
Credits: 3
Examines the theory, development, and application of data and analytics in sports. Explores recent trends in sports data and analytics from a practical perspective, teaching students the skills and ideas to understand and utilize analytics to create value for sport enterprises. Prerequisite: STAT 2331.

APSM 4380 - Technology and Sport
Credits: 3
An overview of the role technology plays in modern coaching, specifically in student-athlete development, monitoring, and recruitment. Emphasizes organization of team and individual video analysis, tactics of competition, and administration of an athletic program. Also covers scouting opponents, determining playing time, and making annual training plans. Junior and senior standing only.

APSM 4385 - Exercise Program Design
Credits: 3
Focuses on evidence-based exercise prescriptions that promote health and maximize performance in the elite and recreational athlete. Prerequisites: APSM 3300 and APSM 3311 OR APSM 2441 and APSM 3411. Senior standing only.

APSM 4390 - Experiential Learning Lab
Credits: 3
Explores practical and theoretical aspects of the discipline with hands-on experience in the sport-coaching industry. Possible topics and/or activities include shadowing a coach, working on a community outreach project, and satisfying professional certification requirements. A total of 3 credit hours from among APSM 4190, APSM 4290, and APSM 4390 are required for the sport performance leadership concentration. Prerequisites: Instructor approval and junior standing (minimum of 60+ hours).

APSM 4461 - Research Practicum in Applied Physiology
Credits: 4
Intended for students considering a career in laboratory-based biological research. Students conduct supervised research with an APSM research faculty member in his/her laboratory. Enrollment is by invitation from an APSM research faculty member in whose lab the research is conducted. Prerequisites: APSM 2441, APSM 2442, APSM 3311.

APSM 4561 - Research Practicum in Applied Physiology
Credits: 5
Intended for students considering a career in laboratory-based biological research. Students conduct supervised research with an APSM research faculty member in his/her laboratory. Enrollment is by invitation from an APSM research faculty member in whose lab the research is conducted. Prerequisites: APSM 2441, APSM 2442, APSM 3311.

APSM 4610 - Applied Physiology and Enterprise Internship
Credits: 6
Experiential learning at a local fitness or health organization as an intern for a total of 250 hours. (Students are

required to provide their own transportation to and from their assigned off-campus fitness and/or health-related internship site.) Prerequisites: APSM 4351 and senior standing. Reserved for APSM majors.

APSM 4661 - Research Practicum in Applied Physiology
Credits: 6
Intended for students considering a career in laboratory-based biological research. Students conduct supervised research with an APSM research faculty member in his/her laboratory. Enrollment is by invitation from an APSM research faculty member in whose lab the research is conducted. Prerequisites: APSM 2441, APSM 2442, APSM 3311.

APSM 4672 - Sport Management Internship
Credits: 6
Experiential learning at a local sports industry organization as an intern for a total of 250 hours. (Students are required to provide their own transportation to and from their assigned off-campus sports-related internship site.) Prerequisites: APSM 4373 and senior standing. Reserved for APSM majors.

Human Development Courses

The Simmons School offers a selection of HDEV courses that address learning and career development skills. These courses are largely available as electives.

HDEV 1001 - First Year Experience Seminar
Credits: 0
The First Year Experience Seminar supports students' transition into SMU and prepares students for success at SMU and beyond through self-discovery exercises, exploration of personal values, and introduction to the six Student Affairs learning domains.

HDEV 1110 - Academic Success and Personal Development
Credits: 1
A graded course designed to help students improve reading efficiency, executive functioning, and lifelong learning skills.

HDEV 1211 - Success Strategies
Credits: 2
Students learn study skills and other strategies for creating success in their academic, professional, and personal lives. Includes self-assessment and journal writing to identify academic strengths and challenges. Provides an opportunity to explore the campus resources to succeed at SMU.

HDEV 2101 - Practicum: Group Leadership
Credits: 1
Unique leadership experience that gives students a laboratory for assessing learned concepts and skills about leadership. Includes discussions on empowerment, public speaking, ethics, and citizenship.

HDEV 2201 - Diversity: Fitting Into a World of Difference
Credits: 2
This course is a study of human diversity and identity development. Students learn about their own identities and about fitting into the communities of which they are a part. Topics include elements of oppression, cycle of socialization, identity development models, privilege, race, sex, gender, sexuality, ability, ethnicity, class, and faith.

Personal Responsibility and Wellness Courses

PRW 2101 - PRW2: Physical Fitness: Bench Aerobics
Credits: 1
Offers an intense aerobic workout using benches. Also, body contouring using dumb bells, body bars, and mats. Includes selected activities designed to target health-related fitness.

PRW 2102 - PRW2: Physical Fitness: Jogging
Credits: 1
This class provides an excellent means for improving cardiovascular endurance by running. Introduces selected activities designed to target health-related fitness. Students are expected to increase their jogging ability and set personal running goals.

PRW 2105 - PRW2: Physical Fitness: Weight Training
Credits: 1
Accommodates all levels of weight training experience. Proper mechanics, safety, and principles of strength building with machines and free weights are presented and practiced. Includes selected activities designed to target health-related fitness.

PRW 2106 - PRW2: Physical Fitness: Weight Training for Women
Credits: 1
Accommodates all levels of weight training experience. Proper mechanics, safety, principles of strength building, and endurance training with machines and free weights are presented and practiced in a friendly setting. Includes selected activities designed to target health-related fitness.

PRW 2110 - PRW2: Physical Fitness: Individual Fitness
Credits: 1
Students develop a personal exercise program, and they test and evaluate their own strengths and weaknesses in terms of health and fitness. Accommodates all levels of fitness. Activities aim to improve cardiovascular endurance, muscular strength and endurance, and flexibility.

PRW 2112 - PRW2: Physical Fitness: Walking
Credits: 1
Walks of 2-2.5 miles during class, and diet and nutrition information. Includes selected activities designed to target health-related fitness.

PRW 2114 - PRW2: Physical Fitness: Beginning Triathlon
Credits: 1
Students train for a sprint distance triathlon (swim, bike, run) during the term. Includes selected activities designed to target health-related fitness. The $60 activity fee covers triathlon entry.

PRW 2115 - PRW2: Physical Fitness: Intermediate Triathlon
Credits: 1
Prepares the student to complete an Olympic triathlon (1.5 km swim, 40 km bike ride, and 10 km run). Covers bicycle care, training progressions, and race strategies. Includes selected activities designed to target health-related fitness. The $60 activity fee covers triathlon entry. Prerequisite: Completion of a sprint distance triathlon.

PRW 2117 - PRW2: Physical Fitness: Beginning Marathon Training
Credits: 1
Students gain the skills and endurance needed to complete the local White Rock Marathon at the end of the term. Includes selected activities designed to target health-related fitness. The $125 activity fee covers marathon entry.

PRW 2120 - PRW2: Physical Fitness: Spinning
Credits: 1
Spinning utilizes specialized, stationary cycles in a controlled, group setting. This indoor class is uniquely tailored to suit a wide range of abilities. Training principles are inspired by road cycling, and the pace is self-directed. Includes selected activities designed to target health-related fitness. Special activity fee: $10.

PRW 2122 - PRW2: Physical Fitness: Rock Climbing
Credits: 1
Introduces the sport and fitness of rock climbing. Students learn safety skills and techniques necessary for successful

rock climbing and have opportunities to climb outdoors and indoors. Introduces selected activities designed to target health-related fitness. Special activity fee: $50.

PRW 2125 - PRW2: Physical Fitness: Group Fitness
Credits: 1
This boot camp style class introduces a variety of group fitness activities such as kickboxing, jogging, Pilates, calisthenics, indoor rowing, and strength training.

PRW 2127 - PRW2: Physical Fitness: Pilates
Credits: 1
Pilates is a total body conditioning exercise method designed to develop the mind and body uniformly. Combines flexibility and strength activities to improve balance, flexibility, and posture and to strengthen core muscles. Aerobic components are included for a full, health-related fitness workout.

PRW 2130 - PRW2: Physical Fitness: Power Yoga
Credits: 1
Focuses on three main areas of yoga practice: deep breathing, exercise (postures), and meditation. Includes selected activities designed to target health-related fitness.

PRW 2132 - PRW2: Physical Fitness: Judo
Credits: 1
Judo ("gentle way") is a safe combat sport that applies maximum efficiency with minimum effort. Students learn the basic skills of judo and techniques for self-defense, particularly against stronger opponents. Also, presents judo's spiritual aspect of relating to others in more harmonious and effective ways.

PRW 2133 - PRW2: Physical Fitness: Racquetball I
Credits: 1
Classes are held on Dedman Center's racquetball courts and are designed to accommodate all levels of physical skill. Rules, safety, skill techniques, strategy, and competitive play are progressively introduced throughout the term. Activities include workouts designed to target health-related fitness.

PRW 2135 - PRW2: Physical Fitness: Mountain Sports
Credits: 1
Includes several hikes, a river raft trip, a mountain bike trip, a volleyball tournament, and selected activities designed to target health-related fitness. Special activity fee: $750 to cover rafting, rock climbing, fly-fishing, horseback riding, and other mountain sports activities. (SMU-in-Taos)

PRW 2140 - PRW2: Physical Fitness: Intermediate Swimming
Credits: 1
For the intermediate to advanced swimmer. Provides an opportunity to refine swimming stroke techniques and to gain more advanced swimming skills and aerobic fitness. Includes selected activities designed to target health-related fitness.

PRW 2144 - PRW2: Physical Fitness: Scuba
Credits: 1
Students need only basic swimming skills to participate. Presents basic physics and physiology (in class) and practical scuba methods and techniques. Includes an introduction to animal behavior so divers can better understand their own behavior underwater. On balance, class time is divided equally among academics, pool work, fitness activities, and open water diving at area lakes. Students earn certification as open water scuba divers upon completion of the course. Special activity fee: $225.

PRW 2145 - PRW2: Physical Fitness: Advanced Scuba
Credits: 1
Introduces several diving specialties: night diving, wreck diving, search and recovery, and overhead environments.

The course is 1/3 academics, 1/3 pool work, and 1/3 open water diving at one of the in-state, area lakes. Also introduces the use of advanced equipment such as lift bags, diver propulsion vehicles, and full-face masks. Students meet experienced and accomplished divers and earn advanced scuba certification upon completion of the class. Fitness activities designed to target health-related fitness are included. Special activity fee: $225.

PRW 2151 - PRW2: Physical Fitness: Self-Defense
Credits: 1
Teaches students how to prepare physically and mentally for an attack using the ancient Japanese martial art jujitsu and a mix of other martial arts techniques (aikido, judo, kickboxing, and various schools of karate). Includes lessons in blocking, striking, joint locks, release and escape, the proper method of falling, and defense while lying on the ground. Includes fitness activities designed to target health-related fitness.

PRW 2161 - PRW2: Physical Fitness: Basketball
Credits: 1
Teaches the fundamentals of playing basketball using team drills and offensive and defensive formations and strategy. Augments skill development with game-like conditions. Includes fitness activities designed to target health-related fitness.

PRW 2190 - PRW2: Physical Fitness: Optional
Credits: 1
Acknowledges the fitness commitments of special groups such as athletes, cheerleaders, pompom squad members, and military service personnel. Students must demonstrate knowledge of health-related fitness concepts and produce an offseason personal fitness plan. Instructor approval required.

PRW 3303 - Self, Identity, and Community Engagement
Credits: 3
Students examine their values, beliefs, and identities; the ways in which these factors influence engagement and interaction with others; and how these qualities and characteristics can help students more effectively serve their communities.

Teaching and Learning

www.smu.edu/teacher
Professor Tim Jacobbe, **Department Chair**

Professors: Stephanie Al Otaiba, Jill Allor, Tim Jacobbe, Stephanie Knight, Anthony Petrosino, Paige Ware
Associate Professors: Amy Gillespie Rouse, Candace Walkington, Anne Wilhelm
Assistant Professor: Quentin Sedlacek, Jeanna Wieselmann
Clinical Professors: Anthony Cuevas, Abigail Pruitt, Nancy Montgomery
Clinical Associate Professors: Ann Batenburg, Sherril English, Diane Gifford, Francesca Jones, Amy Richardson, Robert Rouse
Clinical Assistant Professors: Johnitha Watkins Johnson, Karla del Rosal, Christine Woodbury
Research Assistant Professors: Jan Mallet, Brenna Rivas

General Information

Home to undergraduate, postbaccalaureate and graduate programs for both aspiring and practicing educators, the Department of Teaching and Learning offers students a comprehensive curriculum of theory, research, cross-disciplinary studies and practica. The department's teaching and research practices are grounded in multiple perspectives that encompass behaviorist, cognitive, social constructivist and sociocultural approaches to scholarship. All programs serve to prepare educators who are scholars and leaders, committed to high-quality teaching and practice, leaders in translating research into practice, and experts in differentiated instruction.

The Bachelor of Science in Educational Studies degree program assists students in obtaining credentials for teaching in elementary, secondary or all-level (EC through grade 12) settings.

At the graduate level, a student may pursue an M.Ed., an M.Ed. with Educator Preparation, a Master of Bilingual Education, an M.Ed. in special education, or a Master of Music in music education, as well as specializations in areas such as STEM, gifted education, special education, literacy, mathematics, bilingual education, urban education, English as a second language and learning therapy.

Contact Information

SMU Department of Teaching and Learning
6401 Airline Road
Harold Hall, Suite 301
PO Box 750455
Dallas TX 75275-0455
phone 214-768-2346
www.smu.edu/teacher.

Requirements for Admission

Bachelor's Degree. Before applying to the Bachelor of Science in Educational Studies degree program, students must declare a primary major and complete at least 12 credit hours in their grade level/teaching field. After meeting the requirements below, all students who wish to be admitted to the program must meet with a Teaching and Learning adviser to complete both an SMU B.S. in Educational Studies application and a Texas State application to participate in SMU's State-approved educator-preparation program. State approval requires that students submit evidence of a 3.000 cumulative GPA, a transcript, an essay, a letter of recommendation, and appropriate standardized test results. In addition, students must interview with an adviser, complete a background check, complete the State of Texas Character and Dispositions Statement, and submit a signed copy of the Code of Ethics and Standard Practices for Texas Educators.

Required Before Applying for Admission	*Credit Hours*
Desired Teaching Grade Level	12

EC–6th Grade or 4th–8th Grade: At least 3 hours in each of the following fields, with no grade lower than a C (2.000): English, math, social studies, and science

7th–12th Grade and K-12 Subject Areas: At least 12 hours in the student's teaching field, with no grade lower than a C (2.000)
Minimum Required Grade. Only education courses passed with a C or better will count toward the major in education studies. Students must repeat all required teacher education courses in a major if a grade below C is earned. A cumulative GPA of 3.000 required in educational studies courses to graduate and student teach.

Educational Studies, B.S.

The Department of Teaching and Learning offers a Bachelor of Science in Educational Studies degree that prepares students to teach at the elementary and secondary levels: early childhood through grade six, grades four through eight (middle school) and grades seven through 12 (high school). All of the courses in the program of study are based on the Texas standards for beginning teachers. Undergraduate students pursuing an approved academic major in Dedman College, Cox School of Business, Lyle School of Engineering or Meadows School of the Arts – or the applied physiology and sport management major with a concentration in sport performance leadership in the Simmons School – may also pursue a major in educational studies from the Simmons School. Music education students complete the Education Preparation Program requirements within the Simmons School. Students cannot graduate with only the Bachelor of Science in Educational Studies degree; they must complete both the Bachelor of Science in Educational Studies and another degree major.

Each student in the degree program has an education adviser who directs his/her program of study. The education adviser is committed to mentoring and supporting student learning. Students are expected to maintain high levels of performance and to develop habits of reflection as they acquire knowledge and skills of practice.

The program of study is comprised of courses in the Department of Teaching and Learning as well as courses in other departments. The total number of credit hours required will vary depending upon the grade level or the teaching field and educator certification requirements.

Teacher Preparation

Teacher preparation involves a number of field-based experiential classes in addition to more traditional instruction.

Field Experience and Student Teaching. The Educator Preparation Program includes extensive field experience to help students prepare for careers in teaching. A personal/criminal background check is required prior to field experience. The student progresses from observational activities in classrooms to practice teaching. Upon completion of all coursework in the Bachelor of Science in Educational Studies degree, students have the opportunity to student teach and/or apply for an internship. The student assumes responsibility for an entire classroom in a carefully managed student-teaching experience. SMU students receive mentoring from faculty members noted for their exceptional records as both master teachers and scholars. Exemplary teachers from inner city to suburban settings also act as mentors during the field experience. Part of the field experience comes in the form of either a one-term student-teaching experience or a two-term internship. During the one-term experience, students work with an experienced teacher full-time for 15 weeks in an assigned classroom in a pre-approved Dallas-area public, private or charter school. During this student-teaching term, the student-teaching experience, which is six credit hours, is regarded as full-time enrollment status at SMU for insurance purposes. Students receiving financial aid should meet with financial aid counselors in advance of the student-teaching term to determine aid status. Student teaching ensures that graduates of the SMU teacher education program are better able to enter the teaching profession ready to meet the dynamic learning needs of today's youth.

Eligibility for Student Teaching. Before being assigned to student teaching, candidates are reviewed by the faculty to determine whether adequate progress has been made in order to assume responsibility for school-age students. Such factors as academic performance, maturity and a demonstrated sense of responsibility are considered. Students must have an overall 3.000 GPA in all education courses before beginning student teaching, and all qualifier exams and state tests must be passed prior to the student-teaching/internship experience.

Eligibility for Internship. Students deemed by the director of the undergraduate program to be eligible for a first-year teaching position may forego student teaching to seek an internship in an accredited school in the state of Texas. As an intern, students are enrolled in three credit hours of classes each term for the academic year and work under the supervision of an SMU instructor. As required by the Texas Education Agency, the principal will assign a mentor to work with the intern at the school level. The SMU supervisor will conduct six formal observations during

the year and complete a midyear conference and an effectiveness evaluation at the end of the school year. The mentor is involved in this process.

TExES Exam. All students seeking teacher credentials are required to take and pass the required state-mandated Texas Examinations of Educator Standards tests in the desired teaching fields. Students must attend preparation debriefs and participate in online preparation modules. When a student does not pass the TExES qualifier, a faculty mentor will develop an individual plan of supplemental study to complement a retake of the TExES qualifier. The TExES tests for grades EC through six include the EC–12 Pedagogy and Professional Responsibilities Test, the EC through grade six Core Subjects Test and the Science of Teaching Reading Test. Students preparing for teaching in fourth through eighth grade middle schools must pass the EC–12 Pedagogy and Professional Responsibilities Test, the fourth through eighth grade Core Subjects Test and the Science of Teaching Reading Test. Students preparing for teaching in high schools must pass the TExES Pedagogy and Professional Responsibilities Test for grades EC–12 and a TExES test in their content area. Music students must pass the music content test and the EC–12 Pedagogy and Professional Responsibility Test.

Recommendation to the Texas Education Agency. The Department of Teaching and Learning will recommend to TEA a student who has completed both the Bachelor of Science in Educational Studies and another degree major, taken six hours of a satisfactory student-teaching or internship experience, and passed the two Texas Examinations of Educator Standards tests.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Pre-Major Courses (9 Credit Hours)

EDU 2350 - Educational Psychology
EDU 4300 - Foundations of Teaching English to Speakers of Other Languages
EDU 5318 - Formative/Summative Assessment

Focus/Grade Level (21-24 Credit Hours)

Early Childhood–6th Grade (24 Credit Hours)

EDU 5121 - Field Experience I
EDU 5122 - Field Experience II
EDU 5123 - Field Experience III
EDU 5327 - Integrating Teaching and Learning
EDU 5330 - Integrated STEM Studies
EDU 5331 - Content Area Studies for Elementary School
EDU 5349 - Learning Environment and Professionalism: EC-12
EDU 5355 - Teaching Mathematics in Elementary School
EDU 5357 - Emergent Literacy
EDU 5358 - Conventional Literacy

Middle School (Grades 4–8) (24 Credit Hours)

EDU 5121 - Field Experience I
EDU 5122 - Field Experience II
EDU 5123 - Field Experience III
EDU 5327 - Integrating Teaching and Learning
EDU 5330 - Integrated STEM Studies
EDU 5348 - Introduction to Diverse Learners
EDU 5349 - Learning Environment and Professionalism: EC-12
EDU 5367 - Creating Successful Classrooms
EDU 5371 - Content Area Methods

EDU 6366 - Reading and Writing in the Content Areas

High School (Grades 7–12) (21 Credit Hours)

EDU 5121 - Field Experience I
EDU 5122 - Field Experience II
EDU 5123 - Field Experience III
EDU 5327 - Integrating Teaching and Learning
EDU 5348 - Introduction to Diverse Learners
EDU 5349 - Learning Environment and Professionalism: EC-12
EDU 5367 - Creating Successful Classrooms
EDU 5371 - Content Area Methods
EDU 6366 - Reading and Writing in the Content Areas

K-12 Subject Areas (21 Credit Hours)

EDU 5121 - Field Experience I
EDU 5122 - Field Experience II
EDU 5123 - Field Experience III
EDU 5327 - Integrating Teaching and Learning
EDU 5348 - Introduction to Diverse Learners
EDU 5349 - Learning Environment and Professionalism: EC-12
EDU 5367 - Creating Successful Classrooms
EDU 5371 - Content Area Methods
EDU 6366 - Reading and Writing in the Content Areas

State Teacher Certification Requirements (6 Credit Hours)

Clinical Teacher/Intern Courses

These courses are required by the state for teacher certification.

Early Childhood-6th Grade

EDU 5363 - Student Teaching
EDU 5364 - Student Teaching
or
EDU 5385 - Internship I
EDU 5386 - Internship II

Middle and High School

EDU 5363 - Student Teaching
EDU 5364 - Student Teaching
or
EDU 5385 - Internship I
EDU 5386 - Internship II

Total for the Major Only: 30-33 Credit Hours

Total for the Major plus Teacher Certification Only: 36-39 Credit Hours

Educational Studies Minor

The educational studies minor requires 15 hours selected from the courses in the Bachelor of Science with a major in Educational Studies degree program, and these hours may be applied to the degree program should the student decide to pursue the Educator Preparation Program. All Educator Preparation Program applicants must have a 3.0 in Educational Studies courses as a minor to transition into the major. **Note:** Completion of the minor hours alone will not allow the student to become a teacher.

Requirements for the Minor

Core Courses (6 Credit Hours)

EDU 2350 - Educational Psychology
EDU 5327 - Integrating Teaching and Learning

Three from (9 Credit Hours)

EDU 2348 - Introduction to Diverse Learners
EDU 2349 - Improve Your MEIQ: Mustang Emotional Intelligence
EDU 4300 - Foundations of Teaching English to Speakers of Other Languages
EDU 5318 - Formative/Summative Assessment
EDU 5348 - Introduction to Diverse Learners
EDU 5349 - Learning Environment and Professionalism: EC-12

Total: 15 Credit Hours

Education Courses

Early Childhood–Grade 6	EDU 2350, EDU 5121, EDU 5122, EDU 5123, EDU 5318, EDU 5327, EDU 5331, EDU 5349, EDU 5355, EDU 5357, EDU 5358, EDU 5363, EDU 5364, EDU 5385, EDU 5386
Middle (Grades 4–8), High School (Grades 7–12), and K-12 Subject Areas Courses and Certification Areas	EDU 2350, EDU 5124, EDU 5125, EDU 5126, EDU 5318, EDU 5327, EDU 5348, EDU 5349, EDU 5367, EDU 5371, EDU 5373, EDU 5374, EDU 5375, EDU 5376
Elective Education Courses (These courses are not required by the state for teacher certification.)	EDU 2355, EDU 3301

EDU 2348 - Introduction to Diverse Learners
Credits: 3
A study of diversity, multicultural concepts, and inclusion. Also, explores issues, policies, and professional practice relevant to teaching.

EDU 2349 - Improve Your MEIQ: Mustang Emotional Intelligence
Credits: 3
This course introduces the field of psychology, with emphasis on how people deal with the problems and challenges of everyday life. Students learn about classical and contemporary theories, recent research, and applications of the science of psychology to everyday situations.

EDU 2350 - Educational Psychology
Credits: 3
This course focuses on aspects related to the learning process, such as education theories, characteristics of learners, nature and measurements of abilities, motivation, and successful classroom practice.

EDU 2355 - Literacy and Society
Credits: 3
A structured service learning opportunity that fosters academic growth, citizenship, leadership, and civic responsibility. Readings and course activities relate to the relationship between literacy and society. Throughout the term, students tutor local elementary school students and complete related assignments.

EDU 4300 - Foundations of Teaching English to Speakers of Other Languages
Credits: 3
Students will develop/analyze lesson plans in all content areas using TESOL competencies, emphasizing language concepts, acquisition, teaching and assessment strategies, and the role of culture in language acquisition.

EDU 5100 - Special Topics
Credits: 1
Students work on a personalized system of instruction. Most of the work in this course is done as an independent study.

EDU 5121 - Field Experience I
Credits: 1
Provides students opportunities to work in appropriate school settings and allows them to observe a functioning classroom. Includes classroom setup, environment, organization, structure, and discipline.

EDU 5122 - Field Experience II
Credits: 1
With a focus on special populations, this course places students in school settings where they observe the teaching techniques used to help children with exceptional needs.

EDU 5123 - Field Experience III
Credits: 1
Provides students opportunities to work in appropriate school settings and to plan and teach lessons. Students shadow a teacher in preparation for student teaching.

EDU 5124 - Field Experience I: Secondary
Credits: 1
This course gives students opportunities to work in appropriate school settings and allows them to observe a functioning classroom. Includes classroom setup, environment, organization, structure, and discipline.

EDU 5125 - Field Experience II: Secondary
Credits: 1
Places students in elementary school settings where they observe the teaching techniques used to help children with exceptional or special needs.

EDU 5126 - Field Experience III: Secondary
Credits: 1
This course gives students opportunities to work in appropriate school settings and to plan and teach lessons. Students shadow a teacher in preparation for student teaching.

EDU 5157 - Practicum for Teaching Early Reading and Writing
Credits: 1
Provides experience applying evidence–based principles of literacy development and learning in young children, early childhood through second grade. Requires tutoring experiences in a local school. Corequisite: EDU 5257.

EDU 5200 - Special Topics
Credits: 2
Students work on a personalized system of instruction. Most of the work in this course is done as an independent study.

EDU 5257 - Methods for Teaching Early Reading and Writing
Credits: 2
Examines evidence–based principles of literacy development and learning in young children, early childhood through second grade. Focuses on designing, adapting, and evaluating beginning literacy instruction for children. Corequisite: EDU 5157.

EDU 5300 - Special Topics
Credits: 3
Students work on a personalized system of instruction. Most of the work in this course is done as an independent study.

EDU 5318 - Formative/Summative Assessment
Credits: 3
Explanation and practice of formal and informal assessment strategies, the ways assessment outcomes should inform instruction, and the methods for sharing assessment outcomes with families. All assignments relate to putting assessment skills into practice in the classroom.

EDU 5327 - Integrating Teaching and Learning
Credits: 3
Reviews the nature and design of educational activities: theory, research, practice of unit planning, and lesson planning for active learning that meets the needs of individual students.

EDU 5330 - Integrated STEM Studies
Credits: 3
Provides elementary- and middle-grades teachers with strategies to integrate science, technology, engineering, and mathematics in their classrooms.

EDU 5331 - Content Area Studies for Elementary School
Credits: 3
Explores science, social studies, art, music, drama, and physical education content for students EC-grade six. Also, effective teaching strategies for each content area.

EDU 5348 - Introduction to Diverse Learners
Credits: 3
A study of diversity, multicultural concepts, and inclusion. Also, explores issues, policies, and professional practice relevant to teaching.

EDU 5349 - Learning Environment and Professionalism: EC-12
Credits: 3
This course focuses on major issues facing teachers in establishing and maintaining a positive and productive learning environment, as well as the professional roles and responsibilities of teachers.

EDU 5355 - Teaching Mathematics in Elementary School
Credits: 3
Evaluates learning materials and teaching methods focusing on knowledge and skills required for students EC-grade six.

EDU 5357 - Emergent Literacy
Credits: 3
This course examines principles of literacy learning in young children and predictable stages of oral language, writing, and reading development. All literacy classes require field experiences in local schools.

EDU 5358 - Conventional Literacy
Credits: 3
Introduces theories, practices, and materials for teaching reading and/or writing in primary grades. All literacy classes require field experiences in local schools.

EDU 5363 - Student Teaching
Credits: 3
Requires a 15-week assignment in a school that has a diverse student population and participation in a seminar on campus every 2 weeks. Students are assigned an SMU supervisor who observes in the classroom at least four times a term. A portfolio is required.

EDU 5364 - Student Teaching
Credits: 3
Requires a 15-week assignment in a school that has a diverse student population and participation in a seminar on campus every 2 weeks. Students are assigned an SMU supervisor who observes in the classroom at least four times a term. A portfolio is required.

EDU 5367 - Creating Successful Classrooms
Credits: 3
Students will examine current research that promotes student-centered teaching and constructivist practices. Various teaching and learning strategies of teaching in effective classrooms will be the focus of the course.

EDU 5371 - Content Area Methods
Credits: 3
Students refine content knowledge, methods, and strategies specific to their content area and level of certification.

EDU 5373 - Secondary Student Teaching
Credits: 3
Requires a 15-week assignment in a middle school and/or high school that has a diverse student population. Includes a seminar on campus every 2 weeks. Students are assigned an SMU supervisor who observes in the classroom at least four times a term. A portfolio is required.

EDU 5374 - Secondary Student Teaching
Credits: 3
Requires a 15-week assignment in a middle school and/or high school that has a diverse student population. Includes a seminar on campus every 2 weeks. Students are assigned an SMU supervisor who observes in the classroom at least four times a term. A portfolio is required.

EDU 5375 - Internship I: High School and Middle School
Credits: 3
This course requirement is a full-year assignment as the teacher of record in a public or accredited private school. Supervision by SMU faculty is required.

EDU 5376 - Internship II: High School and Middle School
Credits: 3
This course requirement is a full-year assignment as the teacher of record in a public or accredited private school. Supervision by SMU faculty is required.

EDU 5385 - Internship I
Credits: 3
Requires a full-year assignment as the teacher of record in a public or accredited private school. Supervision by SMU faculty is required.

EDU 5386 - Internship II
Credits: 3
Requires a full-year assignment as the teacher of record in a public or accredited private school. Supervision by SMU faculty is required.

Education Policy and Leadership Courses

EPL 3101 - Rediscovering Leadership
Credits: 1
Introduces first-year students to leadership opportunities at SMU and the skills they need to succeed in leadership roles.

EPL 3301 - The American University
Credits: 3
Explores the development and organization of American colleges and universities. Examines higher education in conceptual forms from the perspective of students, faculty, and administrators.

EPL 3302 - Comparative Leadership
Credits: 3
Introduces students to leadership and organizational change theories, and applies these theories to education systems and policy in the United States and abroad. Leadership and educational systems are analyzed and compared, enhanced by educational visits abroad to provide context and framework for comparison and synthesis. Students in the Hunt Leadership Scholars Program only.

Interdisciplinary Programs and Courses

Data Science, B.S.

Today's world is data-driven. Data science is an exciting field, with its emphasis on using data to describe and understand the world around us. It applies ideas and methods from statistics, computer science, and optimization to find innovative solutions to important problems in many areas. Graduates that combine data science knowledge with fields like management science, humanities, social sciences, or engineering are in high demand.

The major in data science requires a minimum of 36 credit hours (12 courses). Given the interdisciplinary nature of the study of data science, students are required to take a second major in any discipline. Students obtaining a B.S. degree in data science may not also obtain a B.A. degree in mathematics.

Admission to a Data Science Major

To declare the major, students must complete MATH 1337 - Calculus I and MATH 1338 - Calculus II, or MATH 1340 - Consolidated Calculus, and the three data science core courses with a B average. Students must complete these mathematics and data science core courses before proceeding to the advanced courses. The capstone may not be taken before completing or enrolling in the other ten courses.

SMU Degree Requirements

An SMU undergraduate degree requires a minimum of 120 credit hours and must include completion of the University's Common Curriculum, one major and a combination of electives and/or other majors or minors. Completion of certain majors requires more than 120 hours to finish the degree. The credit hours within this curriculum are distributed as follows:

Requirements for the Major

Core Courses (18 Credit Hours)

Mathematics (9 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

- MATH 3304 - Introduction to Linear Algebra

Data Science (9 Credit Hours)

- DS 1300/EMIS 1300 - A Practical Introduction to Data Science
- STAT 2331 - Introduction to Statistical Methods

One course from the following:

- CS 1340 - Introduction to Computing Concepts /DS 1301 - Computer Science for Data Science
- CS 1341 - Principles of Computer Science

Co-Curricular Requirement (3 Credit Hours)

Students must complete a course that carries the Civic and Individual Ethics (CIE) tag with an emphasis on ethics and technology or an ethics-based Philosophical, Religious and Ethical Inquiry (PRIE) course with an emphasis on technology.

One course from the following:

- EMIS 1305 - Computing Technology: Historical and Ethical Perspectives
- EMIS 2375 - Cultural and Ethical Implications of Technology
- PHIL 1319 - Technology, Society, and Value

Advanced Statistics for Data Science (3 Credit Hours)

One course from the following:

- ECO 5375 - Economic and Business Forecasting
- EMIS 5377 - Statistical Design and Analysis of Experiments
- STAT 3366 - Applied Regression Analysis and Data Visualization
- STAT 4370 - Survey Sampling
- STAT 4385 - Introduction to Nonparametric Statistics
- Any STAT 6000-level course (Enrollment in 6000-level courses requires senior standing and departmental permission.)*
- Any other STAT course at the 3000 level or above, except STAT 3300 – Applied Statistics, STAT 3304 – Introduction to Statistical Computing, and STAT 3312 – Categorical Data Analysis.
  *The only courses that may double count for the Statistical Science B.S. and the Data Science B.S. are MATH 1337, MATH 1338 (or MATH 1340), MATH 3304, and one Advanced Statistical Science elective.

Machine Learning (3 Credit Hours)

One course from the following:

- CS 5324 - Machine Learning in Python
- ECE 5365/7365 – Adaptive Algorithms for Machine Learning
- EMIS 5331/CS 5331 - Data Mining
- MATH 4377 - Mathematics of Machine Learning

Advanced Data Science Methodology (3 Credit Hours)

One course from the following:

- STAT 4340/EMIS 3340/CS 4340 - Statistical Methods for Engineers and Applied Scientists
- CS 5324 - Machine Learning in Python
- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- CS 5346 - Cloud Computing
- ECE 5365/7365 – Adaptive Algorithms for Machine Learning
- EMIS 3309 - Information Engineering
- EMIS 3363 - Discrete Event Simulation
- EMIS 5331/CS 5331 - Data Mining
- EMIS 5352 - Information System Architecture
- EMIS 5353 - Information System Design Strategies
- EMIS 5377 - Statistical Design and Analysis of Experiments
- HIST 3368 - Digital History with Data Science
- MATH 4334 - Mathematical Modeling and Applications
- MATH 4377 - Mathematics of Machine Learning
- STAT 4363 - Applied Time Series Analysis

Note:

- Some of these courses may require prerequisites that are not listed above.
- Students double-majoring in statistics, mathematics or an engineering discipline must use STAT 4340/EMIS 3340/CS 4340 to satisfy the statistics, mathematics or engineering major. Another course from this list must be chosen to satisfy the data science methodology elective.

Advanced Elective Course (3 Credit Hours)

One course from any of the following disciplines. (Students may not double-count any advanced course(s) taken from the above course lists.)

Operations Research and Information Systems

- EMIS 3309 - Information Engineering

- EMIS 3363 - Discrete Event Simulation
- EMIS 5352 - Information System Architecture
- EMIS 5357 - Analytics for Decision Support
- EMIS 5360 - Management of Information Technologies

Mathematics

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3315 - Introduction to Scientific Computing

Computer Science

- CS 3330 - Database Concepts
- CS 3339 - Information Assurance and Security
- CS 3353 - Fundamentals of Algorithms
- CS 5320 - Artificial Intelligence
- CS 5323 - Mobile Applications for Sensing and Learning
- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- CS 5346 - Cloud Computing
- CS 5347 - XML and the Enterprise

Information Technology and Operations Management

- ITOM 4307 - Business Modeling with Spreadsheets
- ITOM 4320 - Supply Chain and Logistics Management
- ITOM 4350 - Business Intelligence and Big Data
- MNO 4361 - Project Management

Statistics

- STAT 3341 - Statistical Learning via Sports Analytics
- Any course listed as Advanced Statistics for Data Science. This course cannot be double-counted for the statistics major.

Capstone Course (3 Credit Hours)

One course from the following:

- CRCP 5301 - Creative Computing Major Capstone
- CS 4351 - Senior Design I
- EMIS 4395 - Senior Design
- STAT 4367 - Data Science Capstone
- Other options to fulfill the capstone requirement include an integrative independent study or a research project that is the equivalent of a three-credit course. Consult with the data science undergraduate adviser for additional guidance.

Total for the Major Only: 36 Credit Hours

Data Science Minor

Today's world is data-driven. Data science is an exciting field, with its emphasis on using data to describe and understand the world around us. It applies ideas and methods from statistics, computer science, and optimization to find innovative solutions to important problems in many areas. Graduates that combine data science knowledge with fields like management science are in high demand.

The minor in data science requires a minimum of 24 credit hours (eight courses).

Requirements for the Minor

Core Courses (15 Credit Hours)

Mathematics (6 Credit Hours)

- MATH 1337 - Calculus I and MATH 1338 - Calculus II
  or
- MATH 1340 - Consolidated Calculus

Data Science (9 Credit Hours)

- DS 1300/EMIS 1300 - A Practical Introduction to Data Science
- STAT 2331 - Introduction to Statistical Methods

One course from the following:

- CS 1340 - Introduction to Computing Concepts /DS 1301 - Computer Science for Data Science
- CS 1341 - Principles of Computer Science

Elective Courses (9 Credit Hours)

Three courses from the following categories. All three courses may not be from the same category. Students majoring in mathematics or statistics should complete at least two of these electives with courses outside their major.

Linear Algebra

- MATH 3304 - Introduction to Linear Algebra

Advanced Statistics for Data Science

- ECO 5375 - Economic and Business Forecasting
- EMIS 5377 - Statistical Design and Analysis of Experiments
- STAT 3366 - Applied Regression Analysis and Data Visualization
- STAT 4370 - Survey Sampling
- STAT 4385 - Introduction to Nonparametric Statistics
- Any STAT 6000-level course (Enrollment in 6000-level courses requires senior standing and departmental permission.)*
  *Note: STAT 3300 - Applied Statistics, STAT 3304 - Introduction to Statistical Computing, and STAT 3312 - Categorical Data Analysis cannot be used to satisfy this requirement or any other requirement in the minor in data science.

Machine Learning

- CS 5324 - Machine Learning in Python
- ECE 5365/7365 – Adaptive Algorithms for Machine Learning
- EMIS 5331/CS 5331 - Data Mining
- MATH 4377 - Mathematics of Machine Learning

Advanced Data Science Methodology

- STAT 4340/CS 4340/EMIS 3340 - Statistical Methods for Engineering and Applied Scientists
- CS 5324 - Machine Learning in Python
- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- CS 5346 - Cloud Computing
- ECE 5365/7365 – Adaptive Algorithms for Machine Learning
- EMIS 3309 - Information Engineering
- EMIS 3363 - Discrete Event Simulation
- EMIS 5331/CS 5331 – Data Mining
- EMIS 5352 - Information System Architecture

- EMIS 5353 - Information System Design Strategies
- EMIS 5377 - Statistical Design and Analysis of Experiments
- HIST 3368 - Digital History with Data Science
- MATH 4334 - Mathematical Modeling and Applications
- MATH 4377 - Mathematics of Machine Learning
- STAT 4363 - Applied Time Series Analysis

Note:

- Some of these courses may require prerequisites that are not listed above.
- Students majoring in statistics, mathematics or an engineering discipline must use STAT 4340/EMIS 3340/CS 4340 to satisfy the statistics, mathematics or engineering major. Another course from this list must be chosen to satisfy the data science methodology elective.

Advanced Elective Course

- Students may not double-count any advanced course(s) taken from the above course lists.

Operations Research and Information Systems

- EMIS 3309 - Information Engineering
- EMIS 3363 - Discrete Event Simulation
- EMIS 5352 - Information System Architecture
- EMIS 5357 - Analytics for Decision Support
- EMIS 5360 - Management of Information Technologies

Mathematics

- MATH 3302 - Calculus III: Multi–Variable and Vector Calculus
- MATH 3315 - Introduction to Scientific Computing

Computer Science

- CS 3330 - Database Concepts
- CS 3339 - Information Assurance and Security
- CS 3353 - Fundamentals of Algorithms
- CS 5320 - Artificial Intelligence
- CS 5323 - Mobile Applications for Sensing and Learning
- CS 5330 - File Organization and Database Management
- CS 5337 - Information Retrieval and Web Search
- CS 5346 - Cloud Computing
- CS 5347 - XML and the Enterprise

Information Technology and Operations Management

- ITOM 4307 - Business Modeling with Spreadsheets
- ITOM 4320 - Supply Chain and Logistics Management
- ITOM 4350 - Business Intelligence and Big Data
- MNO 4361 - Project Management

Statistics

- STAT 3341 - Statistical Learning via Sports Analytics
- Any course listed as Advanced Statistics for Data Science. This course cannot be double-counted for the statistics major.

Capstone Course

- CRCP 5301 - Creative Computing Major Capstone
- CS 4351 - Senior Design I
- EMIS 4395 - Senior Design

- STAT 4367 - Data Science Capstone
- Students not enrolling in one of the capstone courses listed above should obtain pre-approval for an integrative project-based course or undergraduate research experience to satisfy the capstone requirement. Consult with the data science undergraduate adviser for additional guidance.

Total: 24 Credit Hours

Data Science Courses

DS 1300 - A Practical Introduction to Data Science
Credits: 3
Provides a first introduction to the exciting field of data science using applications and case studies from various domains (e.g., social media, marketing, sociology, engineering, digital humanities). Introduces data-centric thinking, including a discussion of how data is acquired, managed, manipulated, visualized, and used, to support problem-solving. The fundamental practical skills necessary are taught in class, and each step is illustrated with small examples. Tools presented in this course include SQL and Excel, along with other state-of-the-art tools. No prior knowledge of statistics, math, or programming is necessary.

DS 1301 - Computer Science for Data Science
Credits: 3
Introduction to computer concepts, program structures, object-oriented programming, and interactive application development. Extensive programming projects emphasizing logical control structures and the use of libraries.

DS 2302 - Statistics for Data Science
Credits: 3
Students learn the iterative workflow of data science from initial investigation and data acquisition to communication of final results, with special emphasis on statistical methods relevant to data science inquiry. DS 2302 cannot count toward the statistics major or minor. Prerequisite: DS 1300 or equivalent.

Administration and Faculty

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Office of the President

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Rick Hart, *Director of Athletics*
Michael H. Hites, *Chief Information Officer*
Samantha Thomas, *Executive Director of Institutional Access and Equity and Executive Assistant to the President*

Office of the Provost and Vice President for Academic Affairs

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Daniel Eady, *Assistant Provost (Chief of Staff)*
Sheri Kunovich, *Associate Provost for Student Academic Engagement and Success*
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Division of Enrollment Services

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Khaled F. Abdelghany, *Professor of Civil and Environmental Engineering*, Ph.D., Texas
Mehrdad Aghagholizadeh, *Lecturer of Civil and Environmental Engineering,* Ph.D., University of Central Florida
Miju Ahn, *Assistant Professor of Operations Research and Engineering Management*, Ph.D., University of Southern California
Jennifer Alford, *Clinical Professor of Computer Science,* Ph.D., University of Iowa
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Elena V. Borzova, *Senior Lecturer of Mechanical Engineering*, Ph.D., SMU
Kevin Brenner, *Assistant Professor of Electrical and Computer Engineering*, Ph.D., Georgia Institute of Technology
Jessica Burnham, *Director of Human Centered Design and Innovation,* MFA, University of North Texas
Jerome K. Butler, P.E., *University Distinguished Professor of Electrical and Computer Engineering*, Ph.D., Kansas
Joseph D. Camp, *Associate Professor of Electrical and Computer Engineering*, Ph.D., Rice
Sila Çetinkaya, *Professor of Operations Research and Engineering Management*, *Cecil H. Green Professor of Engineering, Department of Operations Research and Engineering Management Chair*, Ph.D., McMaster
Frederick R. Chang, *Professor of Computer Science, Bobby B. Lyle Centennial Distinguished Chair in Cyber Security, Department of Computer Science Chair,* Ph.D., Oregon
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Corey Clark, *Assistant Professor of Computer Science, Ph.D., University of Texas at Arlington*
Frank P. Coyle, *Senior Lecturer of Computer Science*, Ph.D., SMU
Carlos E. Davila, *Associate Professor of Electrical and Computer Engineering*, Ph.D., Texas
Scott C. Douglas, *Professor of Electrical and Computer Engineering*, Ph.D., Stanford
James G. Dunham, P.E., *Associate Professor of Electrical and Computer Engineering*, Ph.D., Stanford
Richard Duschl, *Texas Instruments Distinguished Chair in Engineering Education and Executive Director of the Caruth Institute for Engineering Education*, Ph.D., University of Maryland
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John H. Easton, *Lecturer of Civil and Environmental Engineering*, Ph.D., Alabama (Birmingham)
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Xin-Lin Gao, *Professor of Mechanical Engineering*, Ph.D., Wisconsin-Madison

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Ira Greenberg, *Professor of Creative Computation*, M.F.A., Pennsylvania
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LiGuo Huang, *Associate Professor of Computer Science*, Ph.D., Southern California
Yildirim Hürmüzlü, *Professor of Mechanical Engineering*, Ph.D., Drexel
Mohammad Khodayar, *Associate Professor of Electrical and Computer Engineering*, Ph.D., Illinois Institute of Technology
MinJun Kim, *Professor of Mechanical Engineering, Robert C. Womack Endowed Chair in Engineering,* Ph.D. Brown
M. Scott Kingsley, *Senior Lecturer of Electrical and Computer Engineering*, D.E., SMU
Paul S. Krueger, *Professor of Mechanical Engineering*, Ph.D., California Institute of Technology
José L. Lage, P.E., *Professor of Mechanical Engineering*, Ph.D., Duke
Eric C. Larson, *Assistant Professor of Computer Science*, Ph.D., Washington
Choon S. Lee, *Associate Professor of Electrical and Computer Engineering*, Ph.D., Illinois (Urbana-Champaign)
Steven Lerner, *Professor of Practice of Mechanical Engineering,* Ph.D., Princeton University
King-Ip (David) Lin, *Associate Professor of Computer Science,* Ph.D. University of Maryland (College Park)
Duncan L. MacFarlane, *Professor of Electrical and Computer Engineering, Bobby B. Lyle Centennial Chair in Engineering Entrepreneurship*, Ph.D., Portland
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Theodore W. Manikas, *P.E., Clinical Professor of Computer Science*, Ph.D., Pittsburgh
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Xu Nie, *Assistant Professor of Mechanical Engineering*, Ph.D., Purdue
Eli V. Olinick, *Associate Professor of Operations Research and Engineering Management*, Ph.D., California (Berkeley)
M. Volkan Otugen, *Professor of Mechanical Engineering, George R. Brown Chair in Mechanical Engineering*, Ph.D., Drexel
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Andrew N. Quicksall, *Associate Professor of Environmental Science*, Ph.D., Dartmouth
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Jeff Tian, P.E., *Professor of Computer Science, Professor of Operations Research and Engineering Management*, Ph.D., Maryland
Wei Tong, *Professor of Mechanical Engineering*, Ph.D., Brown
Halit Üster, *Professor of Civil and Environmental Engineering, Professor of Operations Research and Engineering Management*, Ph.D., McMaster
Jianhui Wang, *Professor of Electrical and Computer Engineering,* Ph.D., Illinois Institute of Technology

James R. Webb, *Professor of Practice of Mechanical Engineering*, DM, University of Maryland (University College)
Sheila Williams, *Clinical Assistant Professor of Mechanical Engineering*, Ph.D., SMU
David A. Willis, *Associate Professor of Civil and Environmental Engineering, Associate Professor of Mechanical Engineering*, Ph.D., Purdue
Jessie Zarazaga, *Lecturer of Civil and Environmental Engineering, MA, Cambridge University*
Jia Zhang, *Professor of Computer Science, Cruse C. and Marjorie F. Calahan Centennial Chair in Engineering*, Ph.D., University of Illinois at Chicago

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Margaret H. Dunham, P.E., *Professor Emeritus of Computer Science*, Ph.D., SMU
Delores M. Etter, *Professor Emeritus of Electrical and Computer Engineering,* Ph.D., New Mexico
Richard Helgason, *Professor Emeritus of Computer Science, Professor Emeritus of Operations Research and Engineering Management*, Ph.D., SMU
David B. Johnson, P.E., *Professor Emeritus of Mechanical Engineering*, Ph.D., Stanford
Radovan B. Kovacevic, *Professor Emeritus of Mechanical Engineering, Ph.D., Montenegro (Yugoslavia)*
Charles M. Lovas, P.E., *Associate Professor of Mechanical Engineering,* Ph.D., Notre Dame
David W. Matula, *Professor Emeritus of Computer Science*, Ph.D., California (Berkeley)
Bijan Mohraz, P.E., *Professor Emeritus of Civil and Environmental Engineering, Professor Emeritus of Mechanical Engineering*, Ph.D., Illinois (Urbana-Champaign)
Paul F. Packman, P.E., *Professor Emeritus of Mechanical Engineering*, Ph.D., Syracuse
Panos E. Papamichalis, P.E., *Professor of Electrical and Computer Engineering,* Ph.D., Georgia Institute of Technology
Stephen A. Szygenda, P.E., *Professor of Computer Science*, *Professor of Operations Research and Engineering Management*, Ph.D., Northwestern
Hal Watson, Jr., P.E., *Professor Emeritus of Mechanical Engineering*, Ph.D., Texas

Adjunct Faculty

Note: The list of faculty adjuncts provided here is advisory only. In any given term, a particular adjunct may not be able to teach because of other commitments. This is especially true because many of SMU's adjuncts are professionals and scholars who are in high demand.
Pelin Altintas-DeLeon, *Adjunct Professor of Operations Research and Engineering Management,* Ph.D., Texas Tech
Phillip Andres, *Adjunct Professor of Mechanical Engineering, M.B.A, Florida Institute of Technology*
Bogdan V. Antohe, *Adjunct Professor of Mechanical Engineering*, Ph.D., SMU (MicroFab)
Karl J. Arunski, *Adjunct Lecturer of Operations Research and Engineering Management*, M.S.E.E., Washington (Raytheon)
Leslie-Ann Asmus, *Adjunct Professor of Operations Research and Engineering Management*, Ph.D., George Mason University
Christian Ayala, *Adjunct Lecturer of Computer Science, M.S.,* SMU
Veepsa Bhatia, *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., Delhi Technological University (Copper Mobile)
Robert L. Bell, *Adjunct Lecturer of Operations Research and Engineering Management*, M.E.E.E., Brigham Young (Lockheed Martin)
William D. Bell, *Adjunct Professor of Operations Research and Engineering Management*, D.E., SMU (U.S. Department of Defense)
Samir Bougacha, P.E. *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., Texas (Parsons Brinckerhoff)
Andrew F. Bouma, *Adjunct Lecturer of Operations Research and Engineering Management,* M.S., Oklahoma State University
Mark K. Boyd, P.E., *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., SMU (LCA Environmental)
David Brauchler, *Adjunct Lecturer of Computer Science, M.S.,* SMU
Denver Brittain, *Adjunct Lecturer of Computer Science, M.S.,* SMU

Ben A. Calloni, P.E., *Adjunct Professor of Computer Science*, Ph.D., Texas Tech (Lockheed Martin)
Hakki C. Cankaya, *Adjunct Professor of Computer Science; Adjunct Professor of Electrical and Computer Engineering; Adjunct Professor of Operations Research and Engineering Management*, Ph.D., SMU (Masergy Communications)
Kristina Cannon, *Adjunct Lecturer of Computer Science*, M.S., SMU
Robert Casagrande, *Adjunct Lecturer of Civil and Environmental Engineering*, M.B.A., SMU
Shaibal Chakrabarty, *Adjunct Professor of Electrical and Computer Engineering, Ph.D.,* SMU
Sudipto Chakraborty, *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., Georgia Institute of Technology (Texas Instruments Inc.)
Justin Childress, *Adjunct Lecturer of Multidisciplinary Studies*, MFA, Texas A&M University at Commerce
Isaac Chow, *Adjunct Professor of Computer Science*, Ph.D., SMU
Joseph R. Cleveland, *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., Iowa State (Samsung, retired)
Eric B. Cluff, *Adjunct Lecturer of Mechanical Engineering*, M.S., SMU (Abbott Labs)
Christopher Colaw, *Adjunct Lecturer of Mechanical Engineering, M.S.,* SMU
Gretchen H. Coleman, *Adjunct Lecturer of Operations Research and Engineering Management,* M.B.A., Texas (Arlington)
Jennifer Cottingham, P.E., *Adjunct Lecturer of Civil and Environmental Engineering,* M.B.A., University of Dallas
Alfred Crouch, *Adjunct Professor of Electrical and Computer Engineering, MSEE,* University of Kentucky
Rickey Crum, *Adjunct Professor of Design and Innovation, M. Arch.*, The University of Texas at Austin
Weiping Dai, P.E., *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., Carnegie Mellon (Trinity Consultants)
Vidroha Debroy, *Adjunct Professor of Computer Science*, Ph.D. UT Dallas
H. Elizabeth del Monte, *Adjunct Lecturer of Civil and Environmental Engineering*, M.Arch., Rice (Cameron MacAllister Group)
Roger O. Dickey, P.E., *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., SMU
Christina Donaldson, *Adjunct Professor of Design and Innovation,* M. Psychology, The University of Dallas
Long S. Dong, *Adjunct Professor of Operations Research and Engineering Management,* Ph.D., SMU (Lockheed-Martin)
Diana Easton, *Adjunct Professor of Civil and Environmental Engineering*, Ph.D, SMU (Navigating the Gray, LLC)
Aaron L. Estes, *Adjunct Lecturer of Computer Science*, M.S., SMU
Judy Sanchez Etchison, *Adjunct Lecturer of Computer Science,* M.S., Texas A&M Commerce
Mohamed Ezzat, *Adjunct Professor of Electrical and Computer Engineering,* Ph.D., SMU
John Fattaruso, *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., California (Berkeley)
Erik Gabrielsen, *Adjunct Lecturer of Computer Science*, M.S., SMU
Dilshan Godaliyadda, *Adjunct Professor of Electrical and Computer Engineering,* Ph.D., Purdue University (Texas Instruments)
John R. Graham, III, *Adjunct Lecturer of Operations Research and Engineering Management*, M.B.A., Wright Statue (Technisource)
Liliana Hickman-Riggs, *Adjunct Lecturer of Operations Research and Engineering Management*, M.S., Texas (Dallas) (Becker)
Mark Hoffman, *Adjunct Lecturer of Computer Science,* M.S., SMU
Kenneth R. Howard, *Adjunct Lecturer of Computer Science*, M.B.A., Saint Mary's (Improving Enterprises)
Toby Huskinson, *Adjunct Lecturer of Computer Science*, M.S., M.B.A,, SMU
Sina Iman, *Adjunct Lecturer of Civil and Environmental Engineering*, M.S.C.E., SMU (CH2M)
Qiguo Jing, *Adjunct Professor of Civil and Environmental Engineering*, Ph.D, SMU (Trinity Consultants, Inc.)
Levent Kaan, *Adjunct Professor of Mechanical Engineering*, Ph.D., SMU
Bhanu Kapoor, *Adjunct Professor of Computer Science*, Ph.D., SMU (consultant/owner, Mismasic)
Clark D. Kinnaird, P.E., *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., SMU (Texas Instruments)
Rama Koganti, *Adjunct Lecturer of Operations Research and Engineering Management,* M.S., Eastern State University (U.T. Southwestern)
FanRong Kong, *Adjunct Professor of Mechanical Engineering,* Ph.D., SMU
Bhalaji Kumar, *Adjunct Professor of Electrical and Computer Engineering,* Senior M.S., University of Missouri-Kansas Citya and M.B.A., The University of Dallas (Frontier Communications)
John Lawrimore, *Adjunct Lecturer of Computer Science,* M.B.A., University of Texas at Dallas

Karl C. Lewis, *Adjunct Professor of Computer Science*, D.Eng., SMU (Perot Systems)
D. Kall Loper, *Adjunct Professor of Computer Science*, Ph.D., Michigan State
Mehedy Mashnad, P.E., *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., Illinois (Urbana-Champaign) (Walter P. Moore and Associates)
Matthew R. McBride, *Adjunct Lecturer of Computer Science*, M.S., SMU
Steven D. McCauley, *Adjunct Lecturer of Civil and Environmental Engineering*, M.S., Texas Tech (El Centro College)
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Lee D. McFearin, *Adjunct Professor of Computer Science*, Ph.D., SMU
M. Wade Meaders, *Adjunct Lecturer of Mechanical Engineering*, M.S., SMU (Halliburton)
Freeman L. Moore, *Adjunct Professor of Computer Science*, Ph.D., North Texas (Raytheon, retired)
Nomaan Mufti, *Adjunct Professor of Electrical and Computer Engineering; Adjunct Professor of Datacenter Systems Engineering,* Ph.D., University of Essex
Jason Moore, *Adjunct Professor of Electrical and Computer Engineering,* Ph. D., Southern Methodist University (Raytheon)
Padmaraj M.V. Nair, *Adjunct Professor of Computer Science*, Ph.D., SMU
William P. Nanry, *Adjunct Professor of Operations Research and Engineering Management*, Ph.D., Texas (Lockheed Martin)
David J. Nowacki, *Adjunct Lecturer of Mechanical Engineering*, M.B.A., M.S., Louisiana State
James Olivier, *Adjunct Professor of Electrical and Computer Engineering*, Ph.D., The Ohio State University
David Olszewski, *Adjunct Professor of Operations Research and Engineering Management,* Doctorate of Management, Walsh College (Raytheon
Robert Oshana, *Adjunct Lecturer of Computer Science*, M.S., SMU
Phillip Pace, *Adjunct Professor of Electrical and Computer Engineering,* Ph.D. , The University of Cincinnati (L3Harris Corporation)
Steven G. Pelosi, *Adjunct Professor of Electrical and Computer Engineering,* M.S., University of Michigan (Fujitsu)
Greg Radighieri, *Adjunct Lecturer of Mechanical Engineering*, M.S., Massachusetts Institute of Technology
Hope Rasmussen, *Adjunct Lecturer of Civil and Environmental Engineering*, M.A., SMU
Jon D. Rauscher, *Adjunct Professor of Civil and Environmental Engineering*, Ph.D., Colorado State (U.S. Environmental Protection Agency)
John Rhymer, *Adjunct Professor of Electrical and Computer Engineering,* M.S., Howe School of Technology Management (Citi)
Paris Rutherford, *Adjunct Lecturer of Civil and Environmental Engineering,* M.Arch in Urban Design., Harvard University (Catalyst Urban Development)
Matt Saari, *Adjunct Lecturer of Mechanical Engineering,* Ph.D., SMU
Mohammed Sayeed, *Adjunct Professor of Mechanical Engineering*, Ph.D., SMU
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Thomas F. Siems, *Adjunct Professor of Operations Research and Engineering Management*, Ph.D., SMU
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Stephen C. Skinner, *Adjunct Professor of Operations Research and Engineering Management*, Ph.D., SMU (Bell Helicopter)
Klyne Smith, *Adjunct Professor of Computer Science*, D.Eng., SMU
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Kamakshi Sridhar, *Adjunct Professor of Electrical and Computer Engineering,* Ph.D., Massachusetts Institute of Technology (Sandvine)
Nagarajan Sridhar, *Adjunct Professor of Datacenter Systems Engineering, Adjunct Professor of Electrical and Computer Engineering,* Ph.D., State University of New York (Buffalo)
Dario Villarreal Suarez, *Adjunct Professor of Electrical and Computer Engineering,* Ph.D., University of Texas at Dallas (Toyota North America)
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Kevin Paul Hofeditz, *Executive Senior Associate Dean for Academic Affairs*
Barbara Hill Moore*, Senior Associate Dean for Faculty*
David Sedman, *Associate Dean for Finance and Operations*
Gretchen Smith, *Associate Dean for Students*
Karen Drennan, *Associate Dean for Communications and Strategy, Chief of Staff*
Corinna Nash-Wnuk, *Associate Dean for Institutional Research, Planning, and Effectiveness*

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Deanna Johnson, *Executive Assistant to the Dean*
Jessica Whitt Garner, *Director of Development*
Ryan Cole, *Director of Undergraduate Recruitment and Admissions*
Chuck Donaldson, *Senior Program Specialist, Academic Services*
Ira Greenberg*, Director, Center of Creative Computation*
Mary Guthrie*, Admissions Coordinator*
Pam Henderson, *Director of Scholarships and Financial Aid*
Jay Hengst, *Executive Director of Operations and Events*
Joe Hoselton, *Director of Graduate Recruitment and Admissions*
Jennifer R. Smith, *Graduate and Undergraduate Records Coordinator, Academic Services*
Janet Stephens, *Director of Academic Services*
Cynthia Watson, *Financial Business Manager*
Clyde Valentín*, Director, Ignite/Arts Dallas*
Zannie Giraud Voss, *Director, SMU DataArts*
Susannah Yatsko, *Assistant Director of Admissions*

Meadows Faculty

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Carter Alexander*, Artist-in-Residence in Dance*
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Sarah Allen, *Associate Professor of Music Education*, Ph.D., Texas
Patricia Alvey, *Professor of Advertising*, Ph.D., Texas
Christopher Anderson, *Associate Professor of Sacred Music*, Ph.D., Duke
Willie Baronet, *Professor of Practice in Advertising*, M.F.A., Texas (Dallas)
Jacob Batsell, *Associate Professor of Journalism*, *William J. O'Neil Chair in Business Journalism*, ad interim, M.A., Texas
Amber Bemak, *Assistant Professor of Film and Media Arts*, M.F.A., Art Institute of Chicago
Linda Blase, *Adjunct Lecturer,* M.F.A., Trinity University
Aaron Boyd, *Professor of Practice in Violin*, *Director of Chamber Music*, B.M. Juilliard
Courtney Brown, *Assistant Professor of Creative Computing*, D.M.A., Arizona State
Mark Burrell, *Visiting Artist-in-Residence in Dance,* M.F.A., Wisconsin
Brad Cassil, *Lecturer of Theatre*, B.F.A., California Institute of the Arts
Melanie Clemmons, *Assistant Professor of Art, M.F.A.*, Colorado

Brandi Coleman, *Assistant Professor of Dance*, M.F.A., Wisconsin
Roberto Conduru, *Endowed Distinguished Research Chair in Art History*, Ph.D., Universidade Federal Fluminense, (Brazil)
Benard Cummings, *Associate Professor of Theatre*, M.F.A., Yale
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Jenny B. Davis, *Professor of Practice in Journalism*, J.D., SMU
Jack Delaney, *Professor of Music, Meadows Wind Ensemble Director*, D.M.A., Cincinnati College-Conservatory of Music
Andrés Díaz, *Professor of Cello*, B.M., Artist Diploma, New England Conservatory
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Maria Dixon Hall, *Associate Professor of Corporate Communication and Public Affairs*, Ph.D., Missouri
Christopher Dolder, *Associate Professor of Dance*, *Chair, Division of Dance*, M.F.A., Mills College
Sandra Duhé, *Associate Professor of Corporate Communication and Public Affairs, Division of Corporate Communication and Public Affairs Chair*, *Division of Arts Management and Arts Entrepreneurship Chair* ad interim, Ph.D., Texas (Dallas)
Virginia Dupuy, *Professor of Voice*, M.M., Texas
Elizabeth Eager, *Assistant Professor of Art History*, Ph.D., Harvard
Doric Earle, *Professor of Practice in Corporate Communication and Public Affairs,* Ph.D., Texas (Dallas)
Steven Edwards, *Professor of Advertising,* Ph.D., Texas
Stefan Engels, *Professor of Music, Leah Young Fullinwider Centennial Chair in Music Performance*, D.M.A., Northwestern
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Mark Feezell, *Senior Lecturer in Music Theory*, Ph.D., North Texas
Barnaby Fitzgerald, *Professor of Art*, M.F.A., Yale
Hugh Clifton Forbis, *Professor of Voice*, M.M., SMU
Robert Frank, *Associate Professor of Music Theory and Composition*, Ph.D., North Texas
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Paula Goldberg, *Lecturer of Film and Media Arts*, M.F.A., Rutgers
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Randall C. Griffin, *University Distinguished Professor of Art History,* Ph.D., Delaware
Sean Griffin, *Professor of Film and Media Arts*, Ph.D., Southern California
Kevin Gunter, *Senior Lecturer in Piano and Class Piano*, M.M., SMU
Pam Harris Hackett, *Executive-in-Residence in Journalism*, B.S., Texas
Blake Hackler, *Associate Professor of Theatre*, M.F.A., Yale
Hank Hammett, *Senior Lecturer in Music, Director of Lyric Theatre*, M.M., Texas
Lane Harder, *Senior Lecturer in Music Theory and Composition*, D.M.A., Texas
Jim Hart, *Professor of Practice of Arts Management and Arts Entrepreneurship, Arts Entrepreneurship Director*, M.F.A., Yale
Kevin Heffernan, *Associate Professor of Film and Media Arts*, Ph.D., Wisconsin
Adam Herring, *Department of Art History Chair, Emily Rich Summers Endowed Professor in Art History*, Ph.D., Yale
Elyan Hill, *Assistant Professor of Art History,* Ph.D., California (Los Angeles)
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Samuel S. Holland, *Professor of Music, Algur H. Meadows Deanship, Meadows School of the Arts,* Ph.D., Oklahoma
Chad Hoopes, *Professor of Practice in Violin*, Certificate in International Solo Performance, Kronberg Academy
Derrick Horne, *Professor of Practice in Music*, M.M., SMU
Pamela Elrod Huffman, *Associate Professor of Music, Director of Choral Activities*, D.M.A., Illinois
Hyae-jin Hwang, *Lecturer in Piano Performance and Pedagogy*, Piano Preparatory Department, D.M.A., Michigan
Adam Jasienski, *Assistant Professor of Art History*, Ph.D., Harvard
David Karp, *Professor of Piano*, D.M.A., Colorado
Piyawan Charoensap-Kelly, *Assistant Professor of Corporate Communication and Public Affairs,* Ph.D., Southern Mississippi

Alice Kendrick, *Professor of Advertising, Altshuler Distinguished Professor*, Ph.D., Tennessee
Mark Kerins, *Associate Professor of Film and Media Arts*, Ph.D., Northwestern
Rita Kirk, *Professor of Corporate Communication and Public Affairs*, Ph.D., Missouri
Derek Kompare, *Associate Professor of Film and Media Arts, Division of Film and Media Arts Chair*, Ph.D., Wisconsin
Peter Kupfer, *Associate Professor of Musicology*, Ph.D., Chicago
Carrie La Ferle, *Marriott Family Endowed Professor, Altshuler Distinguished Teaching Professor*, *Meadows Distinguished Professor,* Ph.D., Texas
Stephanie Langin-Hooper, *Associate Professor of Art History, Karl Kilinski, II Endowed Chair in Hellenic Visual Culture*, Ph.D., California (Berkeley)
Miles Ethan Lascity, *Assistant Professor of Journalism,* Ph.D., Drexel
Gordon Law, *Visiting Professor of Practice in Advertising*, *Interim Chair of Advertising*, B.S., Oklahoma State
Steve Lee, *Professor of Practice in Corporate Communication and Public Affairs*, B.J., Texas
Carol Leone, *Professor of Piano*, D.M.A., North Texas
Janice Lindstrom, *Senior Lecturer in Music Therapy*, M.A., Texas Women's
Michael Lively, *Senior Lecturer in Music Theory*, Ph. D, North Texas
Anna Lovatt, *Associate Professor of Art History*, Ph.D. Courtauld Institute of Art
Owen Lynch, *Associate Professor of Corporate Communication and Public Affairs*, Ph.D., Texas A&M
Catharine Lysinger, *Professor of Practice in Piano Performance and Pedagogy, Piano Preparatory Department Director*, D.M.A., Houston
David Mancini, *Associate Professor of Music Theory, Division of Music Director*, Ph.D., Yale
Stephanie Martin, *Associate Professor of Corporate Communication and Public Affairs*, Ph.D., California (San Diego)
Lisa McCarty, *Assistant Professor of Art,* M.F.A., Duke
Cheryl Mendenhall, *Senior Lecturer of Advertising, Graphic Design Minor Program Director*, M.F.A., Tennessee
Brian Molanphy, *Associate Professor of Art*, M.F.A., Pennsylvania State
Barbara Hill Moore, *Professor of Voice*, *Senior Associate Dean for Faculty, Meadows School of the Arts,* M.S., Illinois
Sidharth Muralidharan, *Associate* Professor of Advertising, *Director of Graduate Studies*, Ph.D., Southern Mississippi
Melissa Murray, *Senior Lecturer in Music Theory*, *Division of Music Associate Director*, M.M., SMU
Sarah Nance, *Assistant Professor of Art*, M.F.A., Oregon
Kristina Nielsen, *Assistant Professor of Musicology,* Ph.D. California (Los Angeles)
Peter-J.E. Noble, *Professor of Practice in Advertising,* M.A., Texas
Lorena Padilla, *Professor of Practice in Film and Media Arts,* M.F.A., New York
Russell Parkman, *Associate Professor of Theatre,* M.F.A, Yale
Leslie Peck, *Associate Professor of Dance, Balanchine Trust Repetiteur and Principal Dancer*
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Troy Perkins, *Associate Professor of Film and Media Arts*, M.F.A., New York
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Gregory J. Poggi, *Visiting Professor of Arts Management and Arts Entrepreneurship,* Ph.D. Indiana and Lincoln College, Oxford
Mark Roglán, *Professor of Arts Management and Arts Entrepreneurship, Linda P. and William A. Custard Director of the Meadows Museum and Centennial Chair,* Ph.D., Universidad Autónoma de Madrid, Spain
Sara Romersberger, *Associate Professor of Theatre*, M.A. (Certified in Mime), Illinois
Christopher Salinas, *Senior Lecturer of Corporate Communication and Public Affairs*, Ph.D., Wayne State
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Jared Schroeder, *Associate Professor of Journalism*, Ph.D., Oklahoma
Julie Scott, *Professor of Practice in Music Education*, Ph.D., Eastman School of Music
David Sedman, *Associate Professor of Film and Media Arts*, *Associate Dean for Finance and Operations, Meadows School of the Arts*, Ph.D., Bowling Green
Alexander Sitkovetsky, *Artist-in-Residence in Violin*, B.Mus., Royal Academy of Music (London)
Lauren Smart, *Professor of Practice in Journalism*, M.A., Syracuse
Gretchen Smith, *Associate Professor and Chair of Theatre*, Ph.D., Indiana

Jason Smith, *Senior Lecturer in Music, Vocal Coach*, M.M., Florida State
Claudia Stephens, *Associate Professor of Theatre*, M.F.A., Carnegie Mellon
Abbey Stockstill, *Assistant Professor of Art History*, Ph.D., Harvard
Nishiki Sugawara-Beda, *Assistant Professor of Art*, M.F.A., Indiana
Daniel Tague, *Assistant Professor of Music Therapy*, Ph.D., Florida State
Karen Thomas, *Professor of Practice in Journalism*, M.F.A., Georgia
Kara-Lynn Vaeni, *Assistant Professor of Theatre*, M.F.A., Yale
Philip Van Keuren, *Professor of Art*, M.F.A., SMU
Zannie Giraud Voss, *Professor of Arts Management and Arts Entrepreneurship, Director, SMU DataArts,* Ph.D., IAE, Aix-en-Provence (France)
Xi Wang, *Associate Professor of Music Theory and Composition*, Ph.D., Cornell
Anne Westwick, *Professor of Practice of Dance*, M.F.A., Mills College
Ariel C. Wilson, *Lecturer in Photography*, M.F.A., New Mexico
Stanley Wojewodski, Jr., *Meadows Distinguished Professor of Directing,* M.F.A., Catholic University
Myra Woodruff, *Professor of Dance*, B.A., New York, International Artist, Instructor and Choreographer, Graham Technique Scholar
Steve Woods, *Professor of Theatre*, M.F.A., New Orleans
Rick Worland, *Professor of Film and Media Arts*, Ph.D., California (Los Angeles)
Quan Xie, *Assistant Professor of Advertising*, Ph.D., Ohio
Jessie Zarazaga, *Lecturer of Creative Computing*, Ph.D., SMU

Meadows Emeritus Faculty

Robert Beard, *Professor Emeritus of Dance*, M.F.A., SMU
Shelley C. Berg, *Professor Emeritus of Dance*, Ph.D., New York
Janis Bergman-Carton, *Professor Emeritus of Art History*, Ph.D., Texas
Rhonda Blair, *Professor Emeritus of Theatre*, Ph.D., Kansas
Danny Buraczeski, *Professor Emeritus of Dance*, B.A., Bucknell
Annemarie Weyl Carr, *Professor Emeritus of Art History*, Ph.D., Michigan
Robert B. Chambers, *Professor Emeritus of Stage Design*, M.A., Kansas
Alessandra Comini, *Professor Emeritus of Art History*, Ph.D., Columbia
Michael Connolly, *Professor Emeritus of Theatre*, Ph.D., Indiana
Michael Corris, *Professor Emeritus of Art*, Ph.D., University College London
Patricia Harrington Delaney, *Professor Emeritus of Dance,* M.F.A., SMU
John Gartley, *Professor Emeritus of Cinema*, Ph.D., Michigan
Kenneth Hart, *Professor Emeritus of Sacred Music*, D.M.A., Cincinnati
Charley Helfert, *Professor Emeritus of Theatre*, Ph.D., Wisconsin (Madison)
Debora Hunter, *Professor Emeritus of Art*, M.F.A., Rhode Island School of Design
Arthur B. Koch, *Professor Emeritus of Art*, M.S.A., Washington
Robert Krout, *Professor Emeritus of Music Therapy*, Ed.D., Columbia, MT-BC
Bill Lengfelder, *Professor Emeritus of Theatre,* M.F.A., Lindenwood College
Margaret Loft, *Professor Emeritus of Theatre*
David McHam, *Professor Emeritus of Communications*, M.S., Columbia
Dale Moffitt, *Professor Emeritus of Theatre*, Ph.D., Washington State
Jim Morris, *Professor Emeritus of Communications*, Ed.D., North Texas
Alfred Mouledous, *Professor Emeritus of Piano*, M.M., Eastman School of Music
James A. Ode, *Professor Emeritus of Music Education*, D.M.A., Performer's Certificate, Eastman School of Music
Cecil O'Neal, *Professor Emeritus of Theatre*, B.A., Wisconsin
Larry Palmer, *Professor Emeritus of Organ/Harpsichord*, A.Mus.D., Eastman School of Music
G. Donald Pasquella, *Professor Emeritus of Communications*, M.A., Iowa
Darwin Payne, *Professor Emeritus of Communications*, Ph.D., Texas
Simon Sargon, *Professor Emeritus of Composition*, M.S., Juilliard School of Music
James W. Sullivan, *Professor Emeritus of Art,* M.F.A., California State (Long Beach)
Martin Sweidel, *Professor Emeritus of Music*, D.M.A. University of Cincinnati College-Conservatory of Music
Thomas W. Tunks, *Professor Emeritus of Music*, Ph.D., Michigan State
Don Umphrey, *Professor Emeritus of Advertising*, Ph.D., Texas
Mary Vernon, *Professor Emeritus of Art,* M.A., New Mexico

P. Gregory Warden, *Professor Emeritus of Art History*, Ph.D., Bryn Mawr
Stephen D. Wilder, *Professor Emeritus of Art,* M.F.A., Wisconsin

Meadows Artist Staff

Richard Abrahamson, *Staff Musician*, Juilliard School of Music
Dawn Askew, *Production Manager*, B.A., Southwestern Oklahoma State
Jason Biggs, *Sound Designer and Engineer,* B.M., SMU
David Brown, *Piano Technician, Division of Music Assistant Director for Operations*, B.A., Coe College
Tara Emerson, *Accompanist*, M.M., South Carolina
Ryan Goolsby, *Studio Technician*, M.F.A., Texas Christian
Eliseo Gutierrez, *Scene Shop Foreman*
Christopher Ham, *Director of Dance Production, M.F.A., SMU*
Don Hopkins, *Director, Mustang Band,* B.M. SMU
Stephen Leary, *Assistant Technical Director*, B.A., Cameron
Justin Mosher, *Technical Director,* M.F.A., Alabama
Melissa Panzarello, *Costume Shop Manager*, M.F.A., Florida State
Mina Polevoy, *Part-time Staff Musician*
JT Ringer, *Prop Master*, B.F.A., Emerson
Eugenie Stallings, *Costumer*, B.A., Texas
Taylor Travelbee, *Director of Recording Services,* A.A.S., Tarrant County College
Tommy Tucker, *Assistant Director*, Mustang Band, B.A., SMU

Meadows Adjunct Faculty

Note: The list of faculty adjuncts provided here is advisory only. In any given term, a particular adjunct may not be able to teach because of other commitments. This is especially true because many of SMU's adjuncts are professionals and scholars who are in high demand.
Christopher Adkins, *Adjunct Professor of Cello, Principal Cello DSO*, M.M.A., Yale
Dawn Askew, *Adjunct Lecturer of Theatre, Master Electrician*, B.A., Southwestern Oklahoma State
Deborah Baron, *Adjunct Assistant Professor of Flute, Assistant Principal Flute DSO*, M.M., Juilliard School of Music
Brian Bentley, *Adjunct Lecturer, Vocal Coach*, M.M., SMU
Lars Berg, *Adjunct Lecturer of Creative Computing*, M.Arch., Pratt Institute
Jason Biggs, *Adjunct Lecturer of Theatre*, B.M., SMU
Linda Blase, *Adjunct Lecturer of Theatre*, M.F.A., Trinity
Christie Bondade, Adjunct Lecturer of Dance, M.F.A., California Institute of the Arts
Marie Bos, *Adjunct Lecturer of Advertising*, M.A., New York
John Bryant, *Assistant Professor in Percussion*
Trey Burns, *Adjunct Professor of Creative Computing,* M.F.A., SCAD
Lisa Bury, *Adjunct Professor of Arts Management and Arts Entrepreneurship*, M.A./M.B.A, SMU
Amanda Capshaw, *Adjunct Lecturer of Theatre*, M.F.A., SMU
Christina Coats, *Adjunct Professor of Corporate Communication and Public Affairs*, B.S., Wyoming
Kimberly Commerato, *Adjunct Professor of Corporate Communication and Public Affairs*, M.A., New York
Kim Corbet, *Adjunct Assistant Professor of Music History and Literature*, M.M., Texas Christian
Scott Dettra, *Adjunct Associate Professor of Organ*, M.M., Westminster Choir College
Doric Earle, *Adjunct Professor of Corporate Communication and Public Affairs,* Ph.D., Texas (Dallas)
Edward Egros, *Adjunct Lecturer of Journalism*, M.S., Northwestern
Donald Fabian, *Adjunct Assistant Professor of Saxophone*, M.M., Michigan State
Michael Federico, *Adjunct Lecturer of Theatre*, M.A., Texas (Dallas)
Kevin Finamore, *Adjunct Associate Professor of Trumpet*, M.M., Juilliard
Rebecca Flores, *Adjunct Lecturer of Film and Media Arts, M.F.A.*, Southern California
Paul Garner, *Adjunct Associate Professor of Clarinet, Associate Principal Clarinet DSO*, M.M., Kansas
Jean Larson Garver, *Adjunct Professor of Flute, Principal Flute DSO (retired)*, M.M., Texas
Liudmila Georgievskaya, *Adjunct Lecturer, Coordinator of Accompanying*, Moscow State Conservatory
William Glenn, *Adjunct Lecturer*, Advertising, M.B.A., Missouri (Columbia)
Matthew Good, *Adjunct Associate Professor of Tuba, Principal Tuba DSO*, B.M., Curtis Institute of Music

Robert Guthrie, *Adjunct Professor of Guitar, Guitar Ensemble Director*, B.M., North Carolina School of the Arts
David Hadeler, *Adjunct Lecturer of Advertising*, M.A., North Texas
John Hall, *Adjunct Lecturer of Advertising*, B.A., Oklahoma
Erin Hannigan, *Adjunct Professor of Oboe, Principal Oboe DSO*, M.M., Eastman School of Music
Robert Hart, *Adjunct Lecturer of Journalism*, B.A., Texas (Arlington)
Rosanne Hart, *Adjunct Professor of Corporate Communication and Public Affairs*, M.A., Kent State
Barry Hearn, *Adjunct Associate Professor of Trombone and Euphonium, Principal Trombone,* DSO, M.M., Illinois
Sally Helppie, *Adjunct Lecturer of Film and Media Arts*, J.D., California (Los Angeles)
Nora Henson, *Adjunct Associate Professor of Music Education*, M.A., Sam Houston State
David Heyde, *Adjunct Associate Professor of Horn*, M.M., SMU
Haley Hoops, *Adjunct Associate Professor of Horn, DSO*, M.M., Northwestern
Ronald Houston, *Adjunct Associate Professor of Viola and Violin*, M.M., New England Conservatory
Gregory Hustis, *Adjunct Professor of Horn, Principal Horn DSO (retired)*, B.M., Curtis Institute of Music
Tearlach Hutcheson, *Adjunct Lecturer of Film and Media Arts*, M.A., Colorado
Lynne Jackson, *Adjunct Assistant Professor of Music Education*, M.M., Michigan
Matthew Jacob, *Adjunct Professor of Corporate Communication and Public Affairs*, M.A., Missouri
Burke Jam, *Adjunct Professor of Creative Computing*, M.F.A., Montana
James Jillson, *Adjunct Lecturer of Arts Managemment and Arts Entrepreneursip*, MA/MBA, SMU
Brian Jones, *Adjunct Lecturer in Percussion, Principal Timpani DSO*, Professional Certificate, Temple
Alexander Kienle, *Adjunct Associate Professor of Horn*, M.M., Juilliard
Camille King, *Adjunct Assistant Professor of Voice*, B.A., California
Diane Kitzman, *Adjunct Associate Professor of Violin, Principal Violin DSO*, B.A., Michigan
John Kitzman, *Adjunct Professor of Trombone, Principal Trombone DSO (retired)*, B.M., Michigan
Drew Lang, *Adjunct Lecturer in Percussion*, M.M., Arizona
Pierre LaPointe, *Adjunct Associate Professor of Viola*, D.M.A., Manhattan School of Music
Linda Leavell, *Adjunct Lecturer of Journalism*, B.A., Texas
Jon Lee, *Adjunct Assistant Professor of Music, Percussion Ensemble Director*, M.M., SMU
Emily Levin, *Adjunct Associate Professor of Harp*, Principal Harp, DSO, M.M. Juilliard
David Matthews, *Adjunct Assistant Professor of Music*, B.M., North Texas
Maria May, *Adjunct Lecturer of Arts Management and Arts Entrepreneurship*, M.A./M.B.A., SMU
Darren McHenry, *Adjunct Assistant Professor of Trombone, Bass Trombone*, DSO, M.M., Juilliard
Matthew McKinney, *Adjunct Lecturer of Theatre, Technical Director,* MFA, Technical Theatre & Design, San Diego State
Maureen Mixtacki, *Adjunct Lecturer of Arts Management and Arts Entrepreneurship*, B.B.A., Notre Dame
Jamal Mohamed, *Adjunct Lecturer in Percussion*, *World Music Ensemble Director*
Bryon Morrison, *Adjunct Lecturer of Advertising*, B.A., Iowa State
Naoko Nakamura, *Adjunct Assistant Professor of Harp*, M.M., Rice
Elizabeth Navarro, *Adjunct Professor of Corporate Communication and Public Affairs*, MA Ed., Pepperdin*e*
Annette Nevins, *Adjunct Lecturer of Journalism*, M.A., North Texas
George Nickson, *Adjunct Associate Professor of Percussion*, M.M., Juilliard
Driscoll Otto, *Adjunct Lecturer of Theatre*, M.F.A., New York University
Morgan Palmer, *Adjunct Lecturer of Dance*, B.F.A., SMU
Melissa Panzarello, *Adjunct Lecturer in Theatre, Costume Shop Manager,* M.F.A., Florida State
Andrea Perez, *Adjunct Lecturer of Arts Management and Arts Entrepreneurship*, J.D., South Texas College of Law Houston
Brian Perry, *Adjunct Associate Professor of Double Bass*, DSO, M.M., Boston
Josh Peugh, *Adjunct Lecturer in Dance*, B.F.A, SMU
Gregory Raden, *Adjunct Associate Professor of Clarinet, Principal Clarinet DSO*, B.M., Curtis Institute of Music
James Richman, *Adjunct Lecturer in Harpsichord, Dallas Bach Society Director*, M.M., Juilliard
Wilfred Roberts, *Adjunct Professor of Bassoon, Principal Bassoon DSO (retired)*, B.M., Oberlin College Conservatory of Music
Jill Robinson, *Adjunct Professor of Arts Management and Arts Entrepreneurship,* MBA, Colorado
Mark Roglán, *Adjunct Associate Professor of Art History*, Ph.D., Autónoma de Madrid
Paul Schmidt, *Adjunct Assistant Professor of Music Education*, M.M., North Texas
Jason Shipp, *Adjunct Lecturer of Advertising*, B.A., SMU
David Smith, *Adjunct Instructor of Creative Computing*, M.S., Embry-Riddle Aeronautical

Edward Lee Smith, *Adjunct Lecturer in Percussion*
Cynthia Sparrow*, Adjunct Lecturer of Advertising,* M.B.A., SMU
Ted Soluri, *Adjunct Associate Professor of Bassoon, Principal Bassoon,* DSO, M.M., Cleveland Institute of Music
Barbara Sudweeks, *Adjunct Associate Professor of Viola, Associate Principal Viola DSO*, Curtis Institute of Music
Jayne Suhler, *Adjunct Professor of Practice in Journalism*, M.A., Texas
Jean-Jacques Taylor, *Adjunct Lecturer of Journalism*, B.A., Ohio State
Bruce Tomaso, *Adjunct Lecturer of Journalism*, B.A., Texas
Tabatha Trolli, *Adjunct Lecturer in Ceramics,* M.F.A. North Texas
Frank Troyka, *Adjunct Associate Professor of Music Education*, M.M., Sam Houston State
Alex Turrini, *Adjunct Professor of Arts Management and Arts Entrepreneurship*, Ph.D., Bocconi (Milan)
Brittany Merrill Underwood, *Adjunct Professor of Corporate Communication and Public Affairs*, M.A., Fuller Theological Seminary
Kara Kirkendoll Welch, *Adjunct Associate Professor of Flute, DSO*, M.M., SMU
Kathy Windrow, *Adjunct Lecturer of Theatre*, M.A., M.F.A., SMU
Wu Qian, *Adjunct Associate Professor of Chamber Music*, M.Mus., Royal Academy of Music (London)
Susan Younghans, *Adjunct Associate Professor of Music Education*, M.M., North Texas

Simmons School of Education and Human Development

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Tim Jacobbe*, Associate Dean for Academic Affairs ad interim*
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Kathryn Canterbury, *Assistant Dean for Research and Grants Accounting*
Anthony Cuevas, *Assistant Dean for Learning Technology*
Yolette Garcia, *Assistant Dean for External Affairs and Outreach*

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Greta Davis, *Clinical Associate Professor of Dispute Resolution and Counseling*, *Department Chair,* Ph.D., North Texas

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Ryan Kota, *Clinical Assistant Professor of Applied Physiology and Wellness*, Ph.D., Florida State
Jan Mallett, *Research Assistant Professor of Teaching and Learning,* Ph.D., Texas A&M (Commerce)
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Cynthia Matthews, *Clinical Assistant Professor of Dispute Resolution and Counseling*, Ph.D., Texas A & M
Megan Murphy, *Clinical Associate Professor of Applied Physiology and Wellness*, Ph.D., North Texas
Dawson Orr, *Clinical Professor of Education Policy and Leadership,* Ph.D., Texas (Austin)
Chalie Patarapichayatham, *Research Assistant Professor of Teaching and Learning,* Ph.D., Chulalongkorn (Bangkok)
Alexandra Pavlakis, *Associate Professor of Education Policy and Leadership*, Ph.D., Wisconsin-Madison
Anthony Petrosino, *Professor of Teaching and Learning,* Associate Dean, Ph.D., Vanderbilt
John Potter, *Clinical Associate Professor of Dispute Resolution and Counseling*, O.D., Indiana
Abigail Pruitt, *Clinical Professor of Teaching and Learning*, Ed.D., George Washington
Meredith Richards, *Associate Professor of Education Policy and Leadership*, Ph.D., Texas (Austin)
Amy Ferrell Richardson, *Clinical Assistant Associate Professor of Teaching and Learning*, Ed.D., SMU
Brenna Rivas, *Research Assistant Professor of Teaching and Learning*, Ph.D., SMU
Amy Robinson, *Clinical Associate Professor of Teaching and Learning*, Ed.D., SMU
Laura Robinson-Doyle, *Lecturer of Applied Physiology and Wellness*, M.S., Texas Woman's University
Amy Gillespie Rouse, *Associate Professor of Teaching and Learning*, Ph.D., Vanderbilt
Robert Rouse, *Clinical Associate Professor of Teaching and Learning*, Ph.D., Vanderbilt
Edita Ruzgyte, *Clinical Associate Professor of Dispute Resolution and Counseling*, Ph.D., Texas Woman's
Brandy Schumann, *Clinical Associate Professor of Dispute Resolution and Counseling*, Ph.D., North Texas
Quentin Sedlacek, *Assistant Professor of Teaching and Learning,* Ph.D. Stanford
Milan Sevak, *Clinical Associate Professor of Education Policy and Leadership*, Ed.D., Harvard
Misty Solt, *Clinical Associate Professor of Dispute Resolution and Counseling*, Ph.D., North Texas
Candace Walkington, *Associate Professor of Teaching and Learning*, Ph.D., Texas (Austin)
Terra Wagner, *Clinical Assistant Professor of Dispute Resolution and Counseling,* Ph.D., North Texas
Paige Ware, *Mary Elizabeth Holdsworth Endowed Professor, Associate Dean,* Ph.D., California (Berkeley)
Bradley Warren, *Lecturer of Applied Physiology and Wellness*, M.S., West Virginia
Nancy V. Warren, *Clinical Professor of Teaching and Learning,* Ed.D., Texas A&M (Commerce)
Peter G. Weyand, *Glenn Simmons Endowed Professor*, Ph.D., Georgia
Jeanna Wieselmann, *Assistant Professor of Teaching and Learning*, Ph.D. Minnesota—Twin Cities
Anne Wilhelm, *Associate Professor of Teaching and Learning*, Ph.D., Vanderbilt
Christine Woodbury, *Clinical Professor of Teaching and Learning,* Ph.D., TWU

Simmons Emeritus Faculty

Dale E. Davis, *Professor Emeritus of Teacher Preparation*
Deborah Diffily, *Professor Emeritus of Teaching and Learning*, Ph.D., North Texas
Paul Gordon Hook, *Professor Emeritus of Physical Education*, Ph.D., North Texas
Jiang (JoAnn) Lan, *Professor Emeritus of Teaching and Learning*, Ed.D., Northern Illinois
G. Reid Lyon, *Professor Emeritus of Education Policy and Leadership*, Ph.D., New Mexico
Patricia Mathes, *Professor Emeritus of Teaching and Learning*, Ph.D., Vanderbilt
George McMillion, *Professor Emeritus of Physical Education*
William Pulte, *Professor Emeritus of Teaching and Learning*
Bryan Robbins, *Professor Emeritus of Physical Education*
R. Jack Roberts, *Professor Emeritus of Education*
Kenneth L. Springer, *Professor Emeritus of Teaching and Learning*, Ph.D., Cornell
Paul Yovanoff, *Professor Emeritus of Teaching and Learning*, Ph.D., Oregon
Patricia K. Webb, *Professor Emeritus of Teacher Preparation*, Ed.D., North Texas