2024-2025 Undergraduate Catalog Mid-Year Addendum

The undergraduate catalog PDF and this addendum represent the official version of SMU's 2024-2025 Undergraduate Bulletin.

New and Modified Courses

ANTH 3343 - Economic Anthropology
How does technology shape a society's economy and culture? What do transactions tell us about cultural values? This course investigates the relationship between economics and culture across diverse societies.

ASAG 5315 - Advanced Studio II
Serves as a culmination of the study of art based in the mediums of the studio courses that each student has completed. Each student produces a new body of work for the final exit portfolio and exhibits a selection in the qualifying exhibition. Prerequisite: ASAG 3390. Restricted to senior art majors.

ASCE 1300 - Introduction to Ceramics
Introduces the discipline of ceramics through the motto, "panta rhei" (everything flows) because the deformation of matter and the flowing across disciplines determine what one makes in ceramics. Students develop basic competency in artwork production with the potter's wheel and other fabrication methods, electric kiln operation, glaze application, and high temperature gas reduction firing.

ASCE 3300 - Intermediate Ceramics
Students further develop competency in artwork production with the potter's wheel and other fabrication methods, electric kiln operation, glaze application, and high temperature gas reduction firing. 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 5300 - Advanced Ceramics
Students refine their understanding of the discipline of ceramics from at least two prior courses, employing the fluid nature of ceramics to flow across disciplines. Based on their grasp of techniques and principles in artwork production with the potter's wheel and other fabrication methods, electric kiln operation, glaze application, and high temperature gas reduction firing, each student selects a common ground (for example, architecture, food service, or the human figure) and identifies specific techniques (for example, printing, throwing, and painting) to accomplish primarily self-initiated projects of research and making. Prerequisite: 6 credit hours of ASCE coursework.

ARHS 3308 - Seven Wonders of the World: History and Ethics of Art and Archaeology Tourism
Explores the history of aspirational travel to personally see famous monuments and works of art. Students study Herodotus and other ancient lists of the seven Wonders of the World, learning

about the monuments themselves as well as studying the Greek and Roman practice of curating travel lists as part of a worldview of expansionism and empire. The European Grand Tour and the new Seven Wonders of the World list (established in 2000) is analyzed to understand how the phenomenon of the bucket list has permeated modern perspectives on archaeology and art. The ethics of global travel - including the impact on the environment and local communities, as well as benefits to the economy and multi-cultural understanding - is analyzed through case studies and in-class debates. The impact of recent trends in museums, including outreach education and artwork repatriation, on art tourism is also studied.

ARHS 3334 - History of Architecture in Spain: Medieval to Modern
Examines the history of architecture in Spain, from its great monuments of the mid- and late medieval periods, through the developments of Renaissance and Baroque styles, to Spanish innovations in twentieth century architecture and design. Students consider changing architectural forms, styles, and histories both in major urban centers and in extra-urban locales.

BIOL 2441 - Human Anatomy and Physiology I with Laboratory
The first part of a two-course sequence, this course covers a systemic approach to the study of the human body with a focus on the anatomical structure and function of the human neuromusculoskeletal systems and is offered for students pursuing PA, PT, and other allied health professions. This is the gateway course for the applied physiology and health management (APHM) major; successful completion is mandatory for admission to the APHM program, an approved STEM 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. To meet the requirements of most allied health professional programs, including PA and PT, students pursuing a graduate professional path are strongly encouraged to complete a full year of introductory biology courses (BIOL 1301/BIOL 1101 and BIOL 1302/BIOL 1102) with a grade of C or better. Some PA programs require a grade of B or better; therefore, it is important to review program specific requirements. Students may not receive credit for both APSM 2441 and BIOL 2441. Lab fee: $30. Prerequisite: Restricted to students who have fewer than 90 credit hours or have the instructor’s approval.

BIOL 2442 - Human Anatomy and Physiology II with Laboratory
The second part of a two-course sequence, this course examines the gross anatomy and physiology of the endocrine, cardiovascular, respiratory, digestive, and urinary systems, their relationship with human health and performance, and is offered for students pursuing PA, PT, and other allied health professions. 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. To meet the requirements of most allied health professional programs, including PA and PT, students pursuing a graduate professional path are strongly encouraged to complete a full year of introductory biology courses (BIOL 1301/BIOL 1101 and BIOL 1302/BIOL 1102) with a grade of C or better. Some PA programs require a grade of B or better; therefore, it is important to review program specific requirements. Students may not receive credit for both APSM 2442 and BIOL 2442. Lab fee: $30. Prerequisite: BIOL 2441.

BIOL 3398 - Undergraduate Research I
A minimum of 9 hours per week doing research in the laboratory of a faculty member. Credit for this course does not apply toward the degree requirement for two laboratory courses. A student may not earn credit in both BIOL 3385 and BIOL 3398. Prerequisites: Junior standing, C- or better in BIOL

3304, and approval of faculty sponsor and the Undergraduate Studies Committee of the department.

BUSE 2311 - Perspectives on American Business Through the Lens of General Motors
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: ECO 1311. Restricted to Cox majors and minors in business.

CHIN 4382 - Chinese Culture and Society in Films
An advanced course for students who have completed CHIN 4381. Enhancement of all four language skills through unedited texts and films from China and Taiwan. Students may only take CHIN 4382 or WL 3312. Prerequisite: CHIN 4381 or consent of area chair.
CRCP 3305 - Creative Coding II
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. Prerequisite: CRCP 1310, CS 1341, or permission of instructor.

CRCP 3315 - Creative Coding III
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. Prerequisite: CRCP 3305 or CS 1342.

CRCP 3320 - Emergent Web Development
Students learn how to build integrated Web applications using emergent 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, and software craftsmanship in creative computing. Prerequisite: CRCP 3315 or instructor consent. Restricted to creative computation majors and/or Lyle School of Engineering majors.

CS 1341 - Principles of Computer Science I
Introduces the fundamental concepts of computer science and object-oriented design for software development. Starts with the procedural approach for programming such as assignment statements, conditional statements, loops, methods, and arrays. Introduces object-oriented concepts such as composition, inheritance, polymorphism, and containers applied to software development. This is the first course for computer science majors and minors.

CS 1342 - Principles of Computer Science II
Extends the object-oriented concepts covered in CS 1341. Focuses on debugging as well as design and implementation of algorithms for problem solving. Topics include functions, references, collections, linked structures, use of dynamic storage, and implementation of abstract data types. Prerequisites: C- or better in CS 1341, a grade of at least 4 on the AP Computer Science A Exam, or departmental consent.

CS 5331 – Data Mining
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 1340 or CS 1341; and CS 4340/OREM 3340/STAT 4340.

DANC 3242 - Dance Composition II
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. Prerequisite: DANC 3341.

ECO 4337 - Urban Economics
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. Note: This course makes extensive use of calculus (MATH 1309/MATH 1337) and statistics (STAT 2331). Prerequisites: C- or better in the following: ECO 3301 and STAT 2331 or STAT 4340.

ECO 4372 - Network Economics and Agent Based Models
Explores characteristics of networks and how our choices affect their structure and outcomes. Applications include diffusion (of ideas, fashion, or viruses), web rankings, information cascades, and market outcomes. Prerequisites: C- or better in the following: MATH 1309 or MATH 1337; ECO 3301; and STAT 2331 or STAT 4340.

FILM 1303 – Introduction to Screenwriting
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 1304 – Introduction to Production
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 and media arts majors. Restricted to first years, sophomores, and juniors.

FILM 2303 – Screenwriting Formats
Students learn how to craft screenplays for diverse types of media production. Students develop multiple scripts across different genres and formats. Prerequisites: FILM 1300, ENGL 2390, or THEA 3331; and FILM 1303 or THEA 3332.

FILM 2304 – Production Formats
Exposure to the creation of diverse types of media production. Students work on multiple projects across the course through production and completion, with each project a different form of audiovisual media (e.g., music video, commercial, soundscape, experimental). Prerequisites: FILM 1300 and FILM 1304.

FILM 3302 – Screenwriting for Television
Students produce a first draft of an episode to a television series. Review of proper format and the structure of beats and acts, as well as different television program formats, including series and serial television. Work includes step outlines of each act, scene readings, and collective feedback, culminating in a fully realized first-draft screenplay of an episode. Prerequisite: FILM 2303.

FILM 3303 - Screenwriting for Feature Film
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 2303.

FILM 3317 – Film Directing
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 vision. Students learn about script analysis, character outline, casting, rehearsals, and on-set direction. Prerequisites: FILM 1303 and FILM 1304.

FILM 4304 – Advanced Production
Advanced-level production course building on the techniques and tools covered in FILM 1304, FILM 2304, and FILM 3304. All students work collaboratively to take short film projects through production and completion. Emphasizes using craft productively to create engaging, polished works. Prerequisites: FILM 1303, FILM 2304, and FILM 3304.

FILM 4353 – Philosophy of Film and Media
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 2351; and FILM 2362 or FILM 2363.

ITOM 3300 - International Topics in Information Technology and Operations Management
Offered through SMU Abroad. Prerequisite: Junior standing.
MKTG 3352 - Luxury Marketing
Focuses on strategies and practices specific to the luxury goods and services market. Students examine consumer behavior, unique marketing approaches required to build and sustain a luxury brand, and current trends in the global luxury industry. Prerequisite: MKTG 3340. Restricted to Cox majors.

OREM 5364 - Advanced Operations Research
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. Prerequisites: B or better in OREM 3360 and OREM 3361.

SOCI 2377 - Introduction to Markets and Culture
General introduction to economic sociology, examining the effects of culture and social relations on shaping production, distribution, and consumption in domestic and global markets.

Prerequisite: Must have access to Microsoft Excel. Recommended to take after completing WRTR 1311, WRTR 1312, or their equivalents (WRTR 2303, WRTR 2305).

SOCI 4324 - Social Factors of Health and Illness
Introduction to medical sociology. Sociological perspectives applied to the social determinants of health and acute and chronic disease; cultural definitions of illness and health; medicalization, risk, and trust in healthcare. Recommended: SOCI 1300.

SOCI 4351 - Nonprofit Fundraising and Grant Writing
Examines sources of revenue for nonprofit organizations. Specific topics include fundraising, grant writing, the history of philanthropic giving in America, and donor dynamics. Prerequisite: One course from the following: SOCI 1300, SOCI 2300, SOCI 2377, or SOCI 3321.

SOCI 4382 - Environmental Justice
Examines the relationships among society, culture, economy, and the environment. Recommended: C or better in SOCI 3311 or department consent.

UHP 4101 - Honors Independent Study
Independent Study on a focused interdisciplinary topic. Prerequisites: Restricted to University Honors students, with junior or senior standing (by hours).

UNIV 2301 - Information Systems and Society
Presents technological advances in information systems of the late 20th to 21st centuries and their impact on society's creation, evaluation, and sharing of knowledge. Critical information studies considers how inventions like the Internet, social media, algorithms, and artificial intelligence change epistemology, searching behavior, reading and attention, the news, and mis/disinformation. Prerequisite or corequisite: A course that satisfies the CC Critical Reasoning (CR) Foundations requirement.

UNIV 4300 - Leadership for an Uncertain World
Introduces a conscious, introspective, and holistic approach to leading self and others in a chaotic, rapidly changing and uncertain world. Specific emphasis is placed on the importance of self-knowledge, mindfulness, and the creation of positive team environments through intentional human connection. The course also includes health, fitness, and wilderness experiential components with a focus on wilderness ethics/Leave No Trace (LNT) principles. Through LNT students explore ways to minimize impact on natural environments and LNT application to individual urban surroundings, community and personal choices. 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).

WL 3312 - Introduction to Chinese Cinema
Provides an overview of Chinese cinema from its inception in the early 20th century to contemporary films. Students may only take WL 3312 or CHIN 4382.

WL 3388 - Future Worlds: Modern French Science Fiction
Explores French science fiction in translation. Examines how Francophone artists grapple with social, political, and technological change through utopian or dystopian visions of the future.

Inactivated Courses

ACCT 4319 – Independent Studies in Accounting
BA 3200 - Special Topics: International Business Administration
BA 3301 - Special Topics: International Business II
BA 4315 - European Common Market
BIOL 3342 - Plant Kingdom
BL 4300 - Special Topics: International Business Law
FILM 3364 - Screenwriting 2
FILM 3365 - Screenwriting 3
FILM 3385 - Sound 2
FILM 5304 - Production 3
FINA 4345 - Energy Project Valuation and Finance
FINA 4346 - Fundamentals of Financial Diligence
MKTG 4342 - Directed Studies in Marketing
MKTG 4343 - Directed Studies in Marketing II
MPED 4184 - Directed Study: Pedagogy
MPED 4284 - Directed Study: Pedagogy
MREP 4122 - Organ Repertory and History of Organ Building: Middle Ages to J.S. Bach
MREP 4222 - Organ Repertory and History of Organ Building: Middle Ages to J.S. Bach
MUED 5254 - Workshop in Music Education
MUED 5255 - Workshop in Music Education
MUED 5350 - Workshop in Music Education
MUED 5351 - Workshop in Music Education
MUED 5352 - Workshop in Music Education
MUED 5354 - Workshop in Music Education
MUHI 4301 - Research Project in Music History
MUHI 4320 - Organ History/Literature
MUTH 4184 - Directed Studies in Music Theory
MUTH 4202 - Seminar in Music Theory
MUTH 4284 - Directed Studies in Music Theory
MUTH 4286 - Directed Studies in Music Industry Practices
MUTH 4290 - Directed Studies in Music Composition
MUTH 4386 - Directed Studies in Music Industry Practices
MUTH 5130 - Collaborative Composition
PERB 5101- Directed Studies in Voice
PERB 5107 - Keyboard Skills for Conductors I
PERB 5108 - Keyboard Skills for Conductors II
PERB 5201- Directed Studies in Voice
PERB 5213 - Studies Continuo Playing
RMI 4325 - Risk Management and Insurance Research
WL 3310 - Transnational Chinese Cinema

Catalog Edits; New and Revised Programs and Policies

Dedman College of Humanities and Sciences

Sociology

Department Transfer Credit Policy

Once students have matriculated at SMU, the sociology will not accept transfer credit for required coursework with a SOCI prefix in the markets and culture major and sociology major. For general University transfer course policies, students should refer to the transfer policies found on the Enrollment and Academic Records section of this catalog.

Environmental Earth Sciences Minor

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 3359 - Computer Methods in Earth Sciences
- GEOL 3361 - Environmental Geology Seminar
- GEOL 3363 - Environmental Geology Seminar
- GEOL 4384 - Hydrogeology
- BIOL 1305 - The Natural Environment
- BIOL 3307 - Ecology
- CEE 2304 - Fundamentals of Environmental Engineering
- CEE 3341 - Introduction to Solid and Hazardous Waste Management
- CEE 5311 - Environmental and Hazardous Waste Laws
- SCI 4301 - Astro-eXtraordinary: The Universe Beyond Earth

Cox School of Business

Business-Energy Management Minor

Undergraduates with majors outside the Cox School may complete the minor in business-energy management.

Requirements for the Minor

The minor in business-energy management requires completion of the 18 credit hours specified for the minor and all related prerequisite courses: ACCT 2301, ECO 1311, ECO 1312, and one from the following: CS 4340, OREM 3340, STAT 2331, STAT 4340.

Required Courses (12 Credit Hours)

Matriculated students must complete all credit hours toward the minor in business-energy management through enrollment at or through 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-energy management to meet the SMU credit hour requirement. To declare the minor, students must have credit for ACCT 2301. To earn a minor in business-energy management, students must satisfy the following core and elective requirements:

- ACCT 2301 - Introduction to Financial Accounting
- FINA 3320 - Financial Management

- MKTG 3340 - Fundamentals of Marketing
  or
- ADV 1341 - Marketing Principles of Advertising

- MNO 3370 – Management

Elective Courses (6 Credit Hours)

- BUSE 3331 - From Prospect to Production to Kilowatts: The Business of Energy
- BUSE 3332 - The Business of Energy: Power Generation, Renewables and Sustainability

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.

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 (9 Credit Hours)

- BUSE 3331 - From Prospect to Production to Kilowatts: The Business of Energy
- BUSE 4333 - Business Management, Planning, and Analysis in Energy
- FINA 4244 - Special Topics in Energy Finance

Elective Course

Choose one from the following:

- BUSE 4137 - Active Management of Energy Portfolio
- BUSE 4332 - Energy and Environmental Law
- CEE 2304 - Fundamentals of Environmental Engineering
- ECO 4355 - Environmental Economics
- GEOL 3307 - Ecology
- GEOL 3330 - Resources and the Environment
- HIST 1321 - Introductory Topics in American History

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

Computer Science Minor

Requirements for the Minor

The following computer science courses are required:

- CS 1341 - Principles of Computer Science I
- CS 1342 - Principles of Computer Science II
- CS 2341 - Data Structures
- CS 2353 - Discrete Computational Structures

Elective Courses

Elective courses can be any six hours of CS courses numbered 3000 or above as approved by the computer science minor adviser. Students may not take CS 4340 to satisfy this requirement.

Total: 18 Credit Hours

Civil and Environmental Engineering Faculty

Professor Kathleen M. Smits, **Chair**
Professors: Khaled F. Abdelghany, Ali Dogru, Usama S. El Shamy, Zhong Lu, Nicos Makris, Barbara S. Minsker, Saeed Salehi, Kathleen M. Smits, Halit Üster, Donghai Wang
Associate Professors: Andrew N. Quicksall, Brett Story, David A. Willis
Clinical Associate Professors: John H. Easton, Jessie Marshall Zarazaga
Assistant Professor: Janille Smith-Colin
Adjunct Faculty: Yasser Abdelhamid, Samir Bougacha, Mark K. Boyd, Robert Casagrande, Gretchen Coleman, Jennifer Cottingham, Weiping Dai, John Furlong, Christopher Hill, Sina Iman, Qiguo Jing, S. Nazanin Kardi, Patrick Kennedy, Mehedy Mashnad, Steven D. McCauley, Elizabeth R. del Monte, Jon D. Rauscher, Goria Ruiz, Paris Rutherford, Hosam Salman, Patricia A. Taylor, Philip K. Turner, Mikel Wilkins, Rumanda K. Young

Computer Science Faculty

Professor Jia Zhang, **Chair** ***ad interim***
Professors: Adel Alaeddini, Joseph D. Camp, Jennifer Dworak, Barbara S. Minkser, Suku Nair, Mitch Thornton, Jeff Tian, Jia Zhang
Clinical Professors: Ginger Alford, Theodore W. Manikas
Associate Professors: Yanling Chang, LiGuo Huang, Eric C. Larson, Chen Wang
Clinical Associate Professors: Frank P. Coyle, Michael Hahsler, David Lin, Kasilingam Periyasamy, Klyne Smith, Nurcan Yuruk
Assistant Professors: Corey Clark, Mehak Gupta
Clinical Assistant Professors: Maya El Dayeh, Labiba Jahan, Panjei Egawati
Adjunct Faculty: Shaibal Chakrabarty, Isaac Chow, Leonid Popokh

Electrical and Computer Engineering Faculty

Professor Mahesh Krishnamurthy, **Chair**
Professors: Jerome K. Butler, Joseph D. Camp, Jung-Chih Chiao, Scott C. Douglas, Jennifer Dworak, Gary A. Evans, Ping Gui, Mahesh Krishnamurthy, Duncan L. MacFarlane, Suku Nair, Behrouz Peikari, Dinesh Rajan, Mitch Thornton, Jianhui Wang
Associate Professors: Carlos E. Davila, Mohammad Khodayar, Choon S. Lee
Clincial Associate Professor: M. Scott Kingsley
Assistant Professors: Sanjaya Lohani, Prasanna Rangarajan
Clincial Assistant Professor: Ken Berry
Adjunct Faculty: Radi M. Alzoubi, Veepsa Bhatia, Hakki C. Cankaya, Shaibal Chakrabarty, Sudipto Chakraborty, Mohamed Ezzat, Mark Hoffman, Clark D. Kinnaird, Bhalaji Kumar, Theodore Moise, Jason Moore, James Olivier, John Rhymer, Steven G. Pelosi, Leonid Popokh, Kamakshi Sridhar, Nagarajan Sridhar, Justin Steadman, Kexu Sun, Matthew Tonnemacher, Philip Wrage

Mechanical Engineering Faculty

Professor Amin Salehi-Khojin, **Chair**
Professors: Adel Alaeddini, Ali Beşkök, Ali Dogru, Xin-Lin Gao, Yildirim Hürmüzlü, MinJun Kim, Elizabeth Loboa, José L. Lage, M. Volkan Otugen, Peter E. Raad, Amin Salehi-Khojin, Saeed Salehi, Wei Tong, Donghai Wang
Clinical Professors: Seth Orsborn, James R. Webb
Associate Professors: Xu Nie, Edmond Richer, David A. Willis
Clinical Associate Professor: Elena V. Borzova
Assistant Professor: Hamidreza Karbasian, Rong Kou
Professor of Practice: Steven L. Lerner
Adjunct Faculty: Phillip Andrew, Bogdan Antohe, Eric B. Cluff, Christopher Colaw, Douglas Coldwell, Levent Kaan, Mohammad Kashki, FanRong Kong, Michael Meaders, David J. Nowacki, Ardas Sabuncuyan, Andrew Weaver

Operations Research and Engineering Management Faculty

Professor Sila Çetinkaya, **Chair**
Professors: Adel Alaeddini, Sila Çetinkaya, Duncan L. MacFarlane, Jeff Tian, Halit Üster, Jia Zhang
Clinical Professor: Diana Easton
Associate Professors: Richard S. Barr, Harsha Gangammanavar, Eric C. Larson, Eli V. Olinick, Ohad Perry, Aurelie Thiele
Assistant Professors: Miju Ahn, Digvijay Boob
Senior Lecturer: John Evers
Adjunct Faculty: Pelin Altintas-Deleon, Batur Aluskan, Leslie-Ann Asmus, Hakki Cankaya, Liliana Hickman-Riggs, Adreana Julander, Farzah Kamalzadeh, Rama Koganti, James McCloud, Emily McIntosh, Brett Schulman, Nandlal Singh, Gheorghe Spiride, Laura Vu

Lyle Faculty List

Office of the Academic Dean

Nader Jalili, *Mary and Richard Templeton Dean, Professor of Mechanical Engineering*
Ali Beşkök, *Associate Dean for Research Innovation and Ph.D. Education, George R. Brown Chair in Mechanical Engineering, Professor of Mechanical Engineering*

Rachel Horton, *Assistant Dean for Brand Marketing and Strategic Communications*
Kathy Hubbard, *Assistant Dean for Student Success and Inclusive Excellence*
Nancy Huff, *Executive Assistant to the Dean*
Rebecca Lothringer, *Assistant Dean for Recruitment and Strategic Enrollment*
Dinesh Rajan, *Associate Dean for Faculty Affairs and Curriculum Innovation, Cecil and Ida Green Chair of Engineering, Professor of Electrical and Computer Engineering*
Ben Zoghi, *Associate Dean for Advanced Studies and Industrial Partnerships, Bobby B. Lyle Endowed Professor of Engineering Innovation*

Administration

Adel Alaeddini, *Executive Director for the Research Innovation Center for Digital and Human-Augmented Manufacturing, O'Donnell Foundation Professor of Mechanical Engineering*
Robert Amponsah, Strategic Initiatives Director
Jessica Burnham, *Director of Human Centered Design and Innovation Program*
Misti Compton, *Director of Undergraduate Advising and Student Records*
Jim Dees, *Executive Director of Student Experience and Scholarship*
Natalie Hunter, *Executive Assistant*
Maya Jhangiani, *Director of Development*
Mahesh Krishnamurthy, *Co-Executive Director of the Hart Institute of Technology, Innovation & Entrepreneurship, Vin and Caren Prothro Chair of the Department of Electrical and Computer Engineering, Professor of Electrical and Computer Engineering*
Stephanie Murray, *Executive Assistant*
Sukumaran V.S. Nair, *Vice Provost for Research and Chief Innovation Office, Director of the AT&T Center for Virtualization, University Distinguished Professor Department of Electrical and Computer Engineering*
Seth Orsborn, *Director of Deason Innovation Gym, Clinical Professor*
Mitchell A. Thornton, P.E., *Executive Director of Darwin Deason Institute for Cyber Security, Professor of Electrical and Computer Engineering, and Cecil H. Green Chair of Engineering*
Todd Wright, *Director of Facilities*

Lyle Faculty

Khaled F. Abdelghany, *Professor of Civil and Environmental Engineering*, Ph.D., Texas (Austin)
Miju Ahn, *Assistant Professor of Operations Research and Engineering Management,* Ph.D., Southern California
Adel Alaeddini, *O'Donnell Foundation Professor of Mechanical Engineering, Executive Director for the Research Innovation Center for Digital and Human-Augmented Manufacturing,* Ph.D., Wayne State University
Jennifer (Ginger) Alford, *Clinical Professor of Computer Science*, Ph.D., Iowa
Richard S. Barr, *Associate Professor of Operations Research and Engineering Management*, Ph.D., Texas (Austin)
Kenneth Berry, *Clinical Assistant Professor of Electrical and Computer Engineering*, Ph.D., Pepperdine
Ali Beşkök, *Professor of Mechanical Engineering, Associate Dean for Research Innovation and Ph.D. Education, George R. Brown Chair in Mechanical Engineering,* Ph.D., Princeton
Digvijay Boob, *Assistant Professor of Operations Research and Engineering Management,* Ph.D., Georgia Institute of Technology
Elena V. Borzova, *Clinical Associate Professor of Mechanical Engineering*, Ph.D., SMU

Jessica Burnham, *Clinical Assistant Professor, 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, *Professor of Electrical and Computer Engineering,* Ph.D., Rice
Sila Çetinkaya, *Professor of Operations Research and Engineering Management, Department of Operations Research and Engineering Management Chair, Cecil H. Green Professor of Engineering*, Ph.D., McMaster
Yangling Chang, *Associate Professor of Operations Research and Engineering Management,* Ph.D., Georgia Institute of Technology
Jung-Chih Chiao, *Professor of Electrical and Computer Engineering, Mary and Richard Templeton Centennial Chair of Electrical Engineering*, Ph.D., California Institute of Technology
Justin Childress, Clinical Assistant Professor of Design and Innovation, M.F.A., Texas A&M
Corey Clark, *Assistant Professor of Computer Science, J. Lindsay Embrey Trustee Professor,* Ph.D., Texas (Arlington)
Frank P. Coyle, *Clinical Associate Professor of Computer Science,* Ph.D., SMU
Carlos E. Davila, *Associate Professor of Electrical and Computer Engineering, Department of Electrical and Computer Engineering Associate Chair for Undergraduate Studies,* Ph.D., Texas (Austin)
Ali H. Dogru, *Herman Brown Chair in Mechanical Engineering*, Ph.D., Texas (Austin)
Scott C. Douglas, *Professor of Electrical and Computer Engineering, Associate Vice Provost for Research and Innovation and Chief Innovation Officer,* Ph.D., Stanford
Richard Duschl, *Professor in the School of Engineering*, Ph.D., Maryland (College Park)
Jennifer Lynn Dworak, P*rofessor of Electrical and Computer Engineering*, Ph.D., Texas A&M
Diana Easton, *Clinical Professor of Operations Research and Engineering Management, Department of Operations Research and Engineering Management Associate Chair,* Ph.D., SMU
John H. Easton, *Clinical Associate Professor of Civil and Environmental Engineering, Department of Civil and Environmental Engineering Associate Chair*, Ph.D., Alabama (Birmingham)
Maya El Dayeh, *Clinical Assistant Professor of Computer Science*, Ph.D., SMU
Usama S. El Shamy, P.E., *Professor of Civil and Environmental Engineering,* Ph.D., Rensselaer Polytechnic Institute
Gary A. Evans, P.E., *Professor of Electrical and Computer Engineering*, Ph.D., California Institute of Technology
John Evers, *Senior Lecturer of Operations Research and Engineering Management*, Eng.D., SMU
Harsha Gangammanavar, *Associate Professor of Operations Research and Engineering Management,* Ph.D., Ohio State
Xin-Lin Gao, *Professor of Mechanical Engineering*, Ph.D., Wisconsin (Madison)
Ira Greenberg, *Professor of Creative Computation,* M.F.A., Pennsylvania
Ping Gui, *Professor of Electrical and Computer Engineering, Department of Electrical and Computer Engineering Associate Chair of Graduate Studies, Cecil and Ida Green Chair of Engineering,* Ph.D., Delaware
Mehak Gupta, *Assistant Professor of Computer Science,* Ph.D., Delaware
Michael Hahsler, *Clinical Associate Professor of Computer Science*, Ph.D., Wirtschaftsuniversität Wien
LiGuo Huang, *Associate Professor of Computer Science,* Ph.D., Southern California
Yildirim Hürmüzlü, *Alshuler Distinguished Teaching Award 2015, Professor of Mechanical Engineering,* Ph.D., Drexel

Labiba Jahan, *Clinical Assistant Professor of Computer Science*, Ph.D., Florida International University
Nader Jalili, *Professor of Mechanical Engineering, Mary and Richard Templeton Dean*, Ph. D., Connecticut
Hamidreza Karbasian, *Assistant Professor of Mechanical Engineering*, Ph.D., Concordia University (Montreal)
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, *Clinical Associate Professor of Electrical and Computer Engineering*, D.E., SMU
Rong Kou, *Assistant Professor of Mechanical Engineering, Director of Laboratory Operations and Safety*, Ph.D., Tulane University
Mahesh Krishnamurthy, *Professor of Electrical and Computer Engineering, Vin and Caren Prothro Chair of the Department of Electrical and Computer Engineering, Co-Executive Director of the Hart Institute for Technology, Innovation & Entrepreneurship*, Ph.D., Texas (Arlington)
José L. Lage, P.E., *Professor of Mechanical Engineering,* Ph.D., Duke
Eric C. Larson, *Associate Professor of Computer Science, Bobby B. Lyle Endowed Professor in Engineering Innovation,* 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
King-Ip (David) Lin, *Clinical Associate Professor of Computer Science*, Ph.D. Maryland (College Park)
Elizabeth G. Loboa, *Professor of Mechanical Engineering, Provost and Vice President for Academic Affairs,* Ph.D., Stanford
Sanjaya Lohani, *Assistant Professor of Electrical and Computer Engineering*, Ph.D., Tulane
Duncan L. MacFarlane, *Professor of Electrical and Computer Engineering, Bobby B. Lyle Centennial Chair in Engineering Entrepreneurship,* Ph.D., Portland
Nicos Makris, *Professor of Civil and Environmental Engineering, Addy Family Centennial Professorship in Civil Engineering*, Ph.D., State University of New York at Buffalo
Theodore W. Manikas, P.E., *Clinical Professor of Computer Science, Department of Computer Science Associate Chair,* Ph.D., Pittsburgh
Barbara S. Minsker, P*rofessor of Civil and Environmental Engineering, Bobby B. Lyle Endowed Professor of Leadership and Global Entrepreneurship*, Ph.D., Cornell
Gholamreza Moghimi, *Clinical Assistant Professor of Civil and Environmental Engineering*, Ph.D., SMU
Sukumaran V.S. Nair, P.E., *University Distinguished Professor for the Department of Electrical and Computer Engineering, Vice Provost for Research and Chief Innovation Office, Director of the AT&T Center for Virtualization,* Ph.D., Illinois (Urbana-Champaign)
Xu Nie, Associate *Professor of Mechanical Engineering*, Ph.D., Purdue
Eli V. Olinick, *Associate Professor of Operations Research and Engineering Management*, Ph.D., California (Berkeley)
Seth Orsborn, *Clinical Professor, Director of Deason Innovation Gym*, Ph.D., Carnegie Mellon
M. Volkan Otugen, *Professor of Mechanical Engineering, George R. Brown Chair in Mechanical Engineering,* Ph.D., Drexel
Egawati Panjei, C*linical Assistant Professor of Computer Science,* Ph.D., University of Oklahoma
Behrouz Peikari, P.E., *Professor of Electrical and Computer Engineering*, Ph.D., California (Berkeley)

Kasilingam Periyasamy, *Clinical Associate Professor of Computer Science*, Ph.D., Concordia University (Montreal)
Ohad Perry, *Associate Professor of Operations Research and Engineering Management,* Ph.D., Columbia
Andrew N. Quicksall, *Associate Professor of Environmental Science*, Ph.D., Dartmouth
Peter E. Raad, P.E., *Professor of Mechanical Engineering,* Ph.D., Tennessee (Knoxville)
Dinesh Rajan, *Professor of Electrical and Computer Engineering, Associate Dean for Faculty Affairs and Curriculum Innovation, Cecil and Ida Green Chair in Engineering,* Ph.D., Rice
Prasanna Rangarajan, *Assistant Professor of Electrical and Computer Engineering*, Ph.D., SMU
Edmond Richer, *Associate Professor of Mechanical Engineering, Department of Mechanical Engineering Associate Chair,* Ph.D., SMU
Kelyn Rola, *Clinical Assistant Professor*, Ed., SMU
Saeed Salehi, *Professor of Mechanical Engineering, Herman Brown Chair in Engineering*, Ph.D., Missouri University of Science and Technology
Amin Salehi-Khojin, *Professor of Mechanical Engineering, William T. Solomon Chair of the Department of Mechanical Engineering*, Ph.D., Clemson
Klyne Smith, *Clinical Associate Professor of Computer Science,* D.Eng., SMU
Janille Smith-Colin, *Assistant Professor of Civil and Environmental Engineering, J. Lindsay Embrey Chair in Civil Engineering,* Ph.D., Georgia Institute of Technology
Kathleen Smits, *Professor of Civil and Environmental Engineering, Department of Civil and Environmental Engineering Chair, William T. and Gay Solomon Endowed Professor in Engineering and Global Development*, Ph.D., Colorado School of Mines
Brett Story, *Associate Professor of Civil and Environmental Engineering*, Ph.D., Texas A&M
Aurelie Thiele, *Associate Professor of Operations Research and Engineering Management,* Ph.D., MIT
Mitchell A. Thornton, P.E., *Professor of Electrical and Computer Engineering, Executive Director of Darwin Deason Institute for Cyber Security, Cecil H. Green Chair of Engineering,* Ph.D., SMU
Jeff Tian, P.E., *Professor of Computer Science, Professor of Operations Research and Engineering Management*, Ph.D., Maryland (College Park)
Wei Tong, *Professor of Mechanical Engineering*, Ph.D., Brown
Halit Üster, *Professor of Operations Research and Engineering Management*, Ph.D., McMaster
Chen Wang, *Associate Professor of Computer Science, O'Donnell Professor of Computer Science*, Ph.D., Rutgers
Donghai Wang, *Professor of Mechanical Engineering, The Brown Foundation Chair in Mechanical Engineering,* Ph.D., Tulane University
Jianhui Wang, *Professor of Electrical and Computer Engineering, Mary and Richard Templeton Centennial Chair of Electrical*, Ph.D., Illinois Institute of Technology
James R. Webb, C*linical Professor, Program Director of the Manufacturing Management Program,* DM, University of Maryland (University College)
David A. Willis, *Associate Professor of Civil and Environmental Engineering, Department of Mechanical Engineering Associate Chair*, Ph.D., Purdue
Nurcan Yuruk, *Clinical Associate Professor of Computer Science*, Ph.D., Arkansas (Fayetteville)
Jessie Zarazaga, *Associate Professor of Civil and Environmental Engineering*, Ph.D., SMU
Jia Zhang, *Professor of Computer Science, Department of Computer Science, Interim Chair, Cruse C. and Marjorie F. Calahan Centennial Chair in Engineering,* Ph.D., Illinois (Chicago)
Ben Zoghi, *Bobby B. Lyle Endowed Professor of Engineering Leadership, Associate Dean for Advanced Studies and Industrial Partnerships*, Ph.D., Texas A&M

Meadows School of the Arts

General Information

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 another school of the University must secure a Student Add/Change Major form from the online Registrar Forms Library, https://www.smu.edu/-/media/Site/EnrollmentServices/Registrar/FormsLibrary/Add-Change-Major-Form.pdf, 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, creative computing, 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.

Students who currently attend SMU and wish to pursue an art major, B.A. or B.F.A., must submit a Meadows Art Application and upload a portfolio to be reviewed by the faculty. Applicants can see more details on the admission process at smu.edu/artadmission.

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 via the Meadows Film Application (see details at www.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. More details on the admission process can be found at smu.edu/admission/arts.

Art Division

Professor Brian Molanphy, **Claire Morris Spaht Chair**
Professors: Brian Molanphy, Philip Van Keuren
Associate Professors: Melanie Clemmons, Nishiki Sugawara-Beda
Assistant Professors: Emily Budd, Frederico Câmara
Visiting Professors of Practice: Dana Buzzee, David Challier, Ian Grieve, Kerry Maguire

Journalism, B.A., with a Specialization in Sports Journalism

Portfolio (1 Credit Hour)

- JOUR 4105 - Digital Portfolio Practicum

Journalism, B.A.

Journalism Electives (6 Credit Hours)

Choose one of the following options: 6 hours of additional JOUR courses (excluding internship and practica); 3 hours of additional JOUR courses (excluding internship and practica) and 3 hours chosen from the FM or FILM classes listed below; or 6 hours chosen from the FM or FILM classes listed below:

- FM 4300 - Fashion Promotion
- FM 4301 - Fashion Journalism
- FM 4302 - Covering Beauty
- FM 4303 - Lifestyle Journalism
- FM 4304 - Fashion and Video
- FILM 3306 - Documentary Production

Simmons School of Education and Human Development

Applied Physiology and Health Management, B.S.

Elective Courses (9 Credit Hours)

- 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 4361 - Research Practicum in Applied Physiology

Total for the Major Only: 45 Credit Hours