

2024-2025 Graduate Catalog Mid-Year Addendum

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

New or Modified Courses

ACCT 6195 - Directed Studies in Accounting

Students work directly with a professor on a specific project or projects. Credit is given based upon evaluation by the professor. Students are responsible for submitting a proposal to a professor for directed studies credit.

ACCT 6208 - Audit and Assurance Services

A study of the theory and practice of auditing and other assurance services. Provides a foundation of the concepts and methods that enable auditors to express an opinion on management assertions related to their clients' financial statements and other business information. Auditing standards are reviewed, as well as professional conduct and ethics. Additionally, a study of internal controls, governmental regulation, and audit reporting is emphasized. Prerequisite: ACCT 6202 or enrollment in the M.S.A. program.

ACCT 6248 - Intermediate Business Taxation

Examines basic issues in the tax treatment of corporations and their shareholders, including corporate formations, a variety of corporate distributions to shareholders (both liquidating and nonliquidating distributions), and tax considerations in the sale of corporate businesses. Prerequisite: Enrollment in the M.S.A. program or by permission.

ACCT 6249 - Advanced Business Taxation

Surveys issues related to partnership and S-corporation taxation, multijurisdictional taxation, international and multistate taxation, and estate tax planning. Prerequisite: ACCT 6248.

ACCT 6281 - M.S.A. Intermediate Accounting II

Continuation of ACCT 6380. Prerequisite: Permission of department chair. Restricted to Cox M.S.A. students.

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 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.

BA 6202 - Advanced Strategic Management for Executives

Covers advanced topics in 1) global strategy, including emerging markets and the rise of Asian economies, 2) diversification and managing the multibusiness firm, and 3) technology platforms. Student groups are responsible for original research on a global industry, most likely AI, and present their results in the final session. Prerequisites: BA 6231 and enrollment in the Executive MBA Program.

BA 6205 - Strategic Management of Human Capital

Explores the techniques, policies, processes, strategies, and practices used by companies and managers to effectively and efficiently leverage their people talent to achieve business objectives. Students learn how human resources has evolved from being transactional to transformational and integral to accomplishing business objectives. Prerequisite: Enrollment in the Executive M.B.A. program.

BA 6232 – Marketing Strategy

Provides a comprehensive understanding of strategic marketing, focusing on how marketers create value for customers and extract financial value for firms. Covers customer value creation and extraction analysis, strategic analysis of market opportunities, marketing mix decisions, and the development and management of marketing plans. Key topics include customer segmentation, target market selection, value proposition, customer lifetime value, product and pricing decisions, branding, and services marketing. The course emphasizes the importance of developing and implementing effective marketing strategies that meet customer needs while achieving business objectives in a dynamic market environment. Prerequisite: BA 6424.

BA 6233 - Strategic Digital Marketing in an AI-Driven World

Focuses on strategic digital marketing in the era of artificial intelligence and e-commerce. It aims to equip participants with a solid understanding of digital marketing principles and tools, emphasizing their application to solve strategic marketing problems. The curriculum covers a wide range of topics, from AI advancements to digital vision and implementation, including digital business models, channels, social media, and mobile marketing. With a strong emphasis on Gen AI-assisted decision-making, the course provides hands-on opportunities for participants to think and act like strategic digital marketing decision-makers, preparing them for the rapidly evolving digital landscape in marketing. Prerequisite: BA 6424.

BA 6273 - Negotiations

Helps students develop into better negotiators. Uses highly interactive classroom dialogue, simulated and real-world negotiations, reading, and reporting on a self-selected negotiation book. Covers how to identify and prepare for various styles of negotiations, along with strategies, tactics, and counter tactics used to accomplish negotiation objectives. Analyzes international, cultural, and gender differences on negotiations, as well the differences in individual and multimember negotiations. Includes opportunities for students to experience these differences. Also, discusses ethical issues arising during negotiations and the use of representatives and mediation to achieve desired negotiation results. Prerequisite: Enrollment in the Executive M.B.A. program.

BA 6274 - Mergers and Acquisitions

Examines the full cycle of acquisition transactions, from the economic rationale of the proposed deal to valuation, structuring, price negotiation, and pre- and post-transaction integration. Students determine how appropriate acquisition strategies and structure can create value for buying and selling shareholders. The case-based course gives students a greater understanding of the M&A process between companies so they are in a position to contribute as part of a buy or sell side team, integration team, or advisory group. Prerequisite: Enrollment in the Executive M.B.A. program.

BA 6277 - Legal Environment of Business

Introduces a number of legal issues common to all businesses and explains how to mitigate the risk of such disputes, or at least prepare for them. Also, helps students hone their analytical and critical-thinking skills. Does not delve into specialized areas such as securities regulations and environmental laws that may not be relevant to all industries. Prerequisite: Enrollment in the Executive M.B.A. program.

BA 6436 - Unbridled Leadership: Cox IMPACT Practicum

Discusses the skills required to prepare and present a professional business plan for an entrepreneurial venture and the analytical skills needed to identify and properly evaluate a new business opportunity. Includes exploration of financing options for the entrepreneurial company and development of a financing plan, overview of the venture capital process, interviews with and lectures from practicing entrepreneurs who have sought venture capital, and preparation and presentation of a professional business plan. Prerequisite: Enrollment in the Executive M.B.A. program.

BIOL 6306 - Concepts of Human Anatomy with Physiology

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. Includes 3 hours of lecture each week. Prerequisite: Graduate standing.

CS 7331 – 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: Knowledge equivalent to CS 1340 or CS 1341; and CS 4340/OREM 3340/STAT 4340. Restricted to Lyle majors.

CS 7318 - Object-Oriented Analysis and Design

Provides an overview of object-oriented analysis and design by integrating the work of Booch, Rumbaugh, Jacobson, Gamma, Helm, Johnson, and Vlissides. Topics cover the basic concepts of object-oriented analysis and design, Unified Modeling Language and its processes, design patterns, design modularity, and stakeholder/value driven design.

DS 6210 – Capstone

Provides students with the opportunity to showcase all they have learned in the MSDS program in a final paper suitable for publication. Students spend the term working on a project, developing and working under faculty and/or industry advisement. Students are required to present their completed projects during the on-campus Immersion, held near week 11 of the term.

Prerequisites: DS 6380, DS 7331, and department consent. Department consent is based on the student having completed a minimum of 19.5 credit hours, being within three terms of graduation, and being in good academic standing (no unresolved incomplete grades, probation, etc.).

DS 6380 - Storytelling with Data

Teaches students to effectively communicate data-based inference and insight through compelling data visualizations and presentations using tools like Tableau, Canvas, and PowerPoint. Students learn to convey these complex insights to diverse audiences, including technical and executive stakeholders, through in-person, remote and recorded presentations. Prerequisites: DS 6306, DS 6371.

ECO 6352 – Applied Econometric Analysis

Deals with statistical techniques that go beyond multiple regression analysis such as multinomial choice models, duration models, count models, spatial regression and panel models, logit and probit models, and count data. Emphasizes extensive computer analysis or current economic topics using advanced econometric techniques. Prerequisites: C- or better in ECO 6350.

EPL 6283 - Fall Residency

Candidates practice their leadership skills through collaboration and leadership opportunities with school administrators and educators during a summer residency experience. They grow through ongoing coaching, meaningful assessments, and performance feedback. Internship activities are directly aligned to the coursework in the program modules. Field studies projects are part of a summative portfolio assessment.

EPL 6284 - Spring Residency

Candidates practice their leadership skills through collaboration and leadership opportunities with school administrators and educators during a summer residency experience. They grow through ongoing coaching, meaningful assessments, and performance feedback. Internship activities are directly aligned to the coursework in the program modules. Field studies projects are part of a summative portfolio assessment.

EPL 6285 - Summer Residency

Candidates practice their leadership skills through collaboration and leadership opportunities with school administrators and educators during a summer residency experience. They grow through ongoing coaching, meaningful assessments, and performance feedback. Internship activities are directly aligned to the coursework in the program modules. Field studies projects are part of a summative portfolio assessment.

EPL 6305 - Special Topics in Educational Leadership

This applied course aimed at K12 practitioners seeking principal certification introduces students to topics in campus level educational leadership outside the domains and competencies of Texas Required Competencies for Pre-Service Principals. These courses are designed to broaden students' capacity for leadership and to provide students with choices for coursework related to their own interests and their unique place in the K12 space.

EPL 6368 - Instructional Leadership 2

Addresses trends and issues impacting instructional programs in mathematics and science, and STEM more broadly. The information incorporated in the topical discussions also addresses

research around student learning, building teacher capacity, and implementing high quality instruction.

ITOM 6232 - Risk Management and Strategic Options

Covers aspects of decision trees, Monte Carlo simulation, dynamic programming, contingent claims analysis, and scenario planning to formalize a rigorous approach to the management of risks in a business context. It uses the logic behind the pricing of options, to help managers deal with risks embedded in the use of real assets. Emphasis is placed on taking advantage of the up-side of uncertainty, and the application of rigorous approaches to thinking through “optionality” in the real world when efficient markets for options on the underlying uncertainty do not exist.

Prerequisites: MAST 6474 or MAST 6478; and ITOM 6202.

LAW 6315 - Advanced Criminal Law

An edited writing seminar that covers selected criminal law topics in greater depth. Topics vary by term and student interest, and may include recent and recurrent questions in comparative criminal law, professional responsibility in criminal law practice, and evidence in criminal law practice. Students write up to four papers on the same or different topics to fulfill the edited writing requirement. Prerequisite: LAW 8341 Criminal Law.

LAW 6333 - Bankruptcy

Introduces federal and state law governing the debtor-creditor relationship: enforcement of judgments; attachment, garnishment, and sequestration; fraudulent conveyances; and bankruptcy as affecting secured and unsecured creditors under the Bankruptcy Code.

LAW 7107 - Law Firm Economics and Pro Bono

Introduces students to the financial structure of major law firms and how these economics impact the firms’ pro bono programs and commitment. Explores the role that pro bono plays in the greater legal community and in the delivery of legal services to the poor. Examines the role of legal aid organizations, in-house legal departments, law schools and bar associations on law firm pro bono.

LAW 7208 - Drafting Energy Contracts

Drafting effective and clear oil and gas contracts; reviewing basic components and building blocks of contracts; translating the business deal into an oil and gas contract; proposing solutions for problems encountered by counsel in the oil and gas industry.

LAW 7232 - Jury Selection: Rules, Psychology, and Methods to Picking a Jury

Offers students a hands-on opportunity to learn the applicable law, unwritten rules, psychology, and methods of jury selection. Students learn how to incorporate their trial theme into jury selection, how to anticipate and neutralize opposing counsel’s potential themes and arguments, establish rapport with the venire panel, balance learning about the panel with exercising cause and peremptory strikes, incorporate the client into the process, and prevent error that commonly occurs in jury selection.

LAW 7238 - Evidence Advocacy Practicum

Detailed study of the criminal tax statutes of the Internal Revenue Code, along with the administrative procedure and court procedure concerning representation of a client who is being investigated by the Internal Revenue Service for criminal tax violations.

LAW 7258 - Private Equity Playbook: Buyouts, Investments and Exits

Examines the roles that lawyers and business professionals play in the private equity industry, in the process of investing and harvesting capital following the successful formation of a private investment fund. Transactions examined include public and private buyouts and acquisitions; joint ventures and minority investments, both with and without leverage; as well common exit transactions such as IPOs and strategic and secondary sales. Issues that arise during the lifecycle of an investment are also examined, including governance issues involving private equity portfolio companies and co-investor and management team relations. Prerequisite: LAW 6420 Business Enterprise.

LAW 7286 - Texas Trial and Appellate Procedure

Texas civil procedure from the commencement of trial through appeal, including selection of the jury, presentation of the case, motions for instructed verdict, preparation of the jury charge, motions for judgment notwithstanding the verdict and for new trial, rendition of judgment, and perfection and prosecution of civil appeals through the courts of appeals and Texas Supreme Court.

LAW 7287 - Advanced Analytical Legal Writing

Hones advanced analytical writing skills, with an emphasis on preparing for the writing portions of the Bar exam. Through repeated practice and regular feedback, students develop the skills of issue spotting, effective organization, clear explanation, and thorough analysis, which are critical for success on the MEE and MPT (50% of the bar exam). As a basis for practicing these skills, students review the substantive law of civil procedure, criminal law, and property. Enrollment is limited to students in their final semester of law school.

LAW 7288 - Antitrust Law

A survey of the federal antitrust laws as they relate to mergers, monopolization, and price discriminations, and horizontal and vertical restraints of trade, including price fixing, refusals to deal, territorial and product divisions, tie-ins, exclusive dealing, resale price maintenance, and customer restrictions. Also, enforcement and the private treble damage remedy, including the concepts of antitrust standing and antitrust injury.

LAW 7365 - Trademarks

Explores the essentials of U.S. trademark law including what constitutes a protectable trademark, trade dress marks and issues of distinctiveness and functionality, how trademark rights are acquired, how they are enforced in both infringement and dilution actions, and the remedies that are available, both legal and equitable.

LAW 7366 - Litigation Practicum

Explores the essentials of U.S. trademark law including what constitutes a protectable trademark, trade dress marks and issues of distinctiveness and functionality, how trademark rights are acquired, how they are enforced in both infringement and dilution actions, and the remedies that are available, both legal and equitable.

LAW 7604 - First Amendment Clinic

Provides assistance to clients defending and advancing the rights of free press, free speech, petition, and assembly. The seminar component integrates substantive law, theory, core lawyering skills, and legal ethics to provide law students real world law practice experience. Under faculty

supervision, student attorneys may handle the following types of cases and matters, among others: defamation defense/representation of witnesses in defamation cases; Texas Citizens Participation Act proceedings (anti-SLAPP); motions to obtain access to civil and criminal court records; challenges to gag orders and protective orders in criminal and civil cases; motions to open courtrooms/motions to photograph, broadcast, or stream court proceedings; issues related to the right to photograph police officers and other government officials in public; motions to quash subpoenas directed to journalists; prepublication review of news articles; individual or group free speech, right to petition, and right of assembly claims; amicus briefs on First Amendment issues; Texas Public Information Act requests/Freedom of Information Act requests. Student attorneys are expected to take the lead in all aspects of their casework and to be professionally responsible for the services they provide on behalf of their clients. Through client representation and the clinic seminar, student attorneys have the opportunity to practice fundamental lawyering skills necessary to provide competent, ethical, and zealous representation. These skills include interviewing and counseling clients; negotiating and interacting with opposing counsel; developing and analyzing facts and legal theories; developing and planning case strategy; and drafting and arguing legal pleadings and motions. Students develop these skills in an atmosphere that promotes collaboration, self-evaluation, and self-reflection.

LAW 7638 - Small Business and Trademark Clinic

The Small Business and Trademark Clinic provides free legal services to individuals, small businesses, and non-profit organizations that generally cannot afford to pay legal fees, while providing law students (associate members of the State Bar of Texas) with training and experience in transactional law and trademark law. Clinic students advise clients on the formation of business and non-profit entities and assist in preparing necessary legal documents to form these entities. Students in the Small Business Clinic experience the transactional practice of law with real clients who have real issues in the business world, such as contract drafting and revising. Clinic students also work on trademarks matters in the Trademark Clinic, which is a member of the USPTO Law School Clinic program. Clinic students gain specific experience in advising clients about basic trademark matters as well as drafting, filing, and prosecuting trademark applications with the USPTO. Clinic students accepted for the Small Business and Trademark Clinic should expect to handle both business and trademark matters. Prerequisites: LAW 6420 Business Enterprise, completion of all first year courses, and good academic standing.

LAW 8226 - Collaborative Law

Practical application of interest-based negotiation to disputes involving various areas of the law. Topics include collaborative and cooperative law, informed consent, the Uniform Collaborative Law Act, ethics of unbundled legal services, case facilitation and management, use of experts, nonadversarial communication skills, and case studies. Also includes drafting forms and agreements and participating in role play.

LAW 8261 - Gender Law

Explores the topic of gender equality as reflected in constitutional law and in various bodies of federal and state statutory law. Using different theories of equality, it covers such matters as modern equal protection jurisprudence; sex discrimination in employment and education; reproductive rights; domestic violence; sex work; and women in the legal profession.

LAW 8303 - Originalism and the Origins of the Federal Constitution

An intensive introduction to some of the historical sources of the Constitution. By reference to original source documents, the class considers the common law and other influences on early American government and justice, such as Locke, Montesquieu, and Blackstone's Commentaries; the colonial experience leading to and immediately following the American Revolution; documents and debate directly relevant to formation of individual constitutional provisions and amendments; and the initial experience and understanding of the Constitution, through to Story's Commentaries, in addition to later amendments. The class also considers the influence and use of this material on modern interpretation of the Constitution as well as discusses what sources courts consider as a historical source for interpreting the Constitution. Our goal is to orient students to Constitutional interpretive debates and provide helpful framing for how historical material is relevant to interpreting the Constitution.

LAW 8340 - Selected Topics in Environmental Law

Edited writing seminar that covers selected topics in Environmental Law. Topics may vary by term and may include climate change, the clean energy transition, environmental impact litigation, environmental enforcement, rights of nature, environmental justice, corporate sustainability, and international environmental law.

LAW 8376 - Legal Analysis, Writing, and Research II

Students meet in small groups and integrate instruction in research, analysis, and writing as well as instruction in advocacy skills such as brief writing, oral argument, and negotiation. Uses simulated interviewing and negotiation exercises, group discussions, and writing exercises to teach these skills. In the fall, emphasizes research skills and legal analysis; focuses writing instruction on organization and synthesis; and requires students to write an objective legal memorandum containing a well-reasoned, clearly written analysis of several legal issues, substantiated by legal authority in correct citation form. In the spring, involves research and analysis that are more advanced and focuses on persuasive writing. Grades each term are based in large part on one research and writing project.

MUAS 5141 - String Techniques

Principles involved in playing and teaching violin, viola, cello, and string bass. Reserved for music majors and minors.

MUAS 5142 - Woodwind Methods

Principles involved in playing and teaching woodwind instruments. Reserved for music majors and minors.

MUAS 5143 - Brass Methods

Principles involved in playing and teaching brass instruments. Reserved for music majors and minors.

MUTH 5120 - Game Music Collaboration

Students compose music individually or in teams in collaboration with video game project students in the Guildhall. Prerequisite: MUTH 1320. Corequisite: MUTH 3100.

MUTH 5121 - Film Music Collaboration

Students compose music individually or in teams in collaboration with video game project students in the Guildhall. Prerequisite: MUTH 1320. Corequisite: MUTH 3100.

OREM 7364 - Advanced Operations Research

Covers advanced topics pertaining to formulations, solution methods and applications of linear optimization, integer programming, non-linear programming, optimization under uncertainty, and dynamic programming. The course also covers methods in metaheuristics. Prerequisite: Knowledge of linear algebra (MATH 3304 or equivalent or enrollment in the OREM MSORA program). Restricted to Lyle majors only.

PC 8326 - Pastor's Crisis Ministry

Introduces the church's ministry of pastoral care, with an emphasis on crisis theory and intervention and theological reflection upon human crisis. Intervention procedures are practiced and then applied to typical crises in which the minister is called upon to help: illness, dying, bereavement, spousal and child abuse, natural disasters, hospitalization, family emergencies and others.

RE 6220 - Real Estate Practicum

A real estate industry-focused experiential learning opportunity that prepares students for careers in commercial real estate. The backbone of the course is the management of the SMU Real Estate Impact Investment Fund, a discretionary, student-managed, open-ended "evergreen" investment fund that targets direct equity investments in a variety of real estate projects in communities where the investment will create a demonstrable impact. Students learn all aspects of real estate private equity investing, including fundraising, originating and sourcing transactions, asset management, project capitalization, and dispositions. Students work in groups and are responsible for preparing investment memoranda and presenting prospective investments to the fund's Investment Committee for approval. This course requires significant out-of-class work and enrollment in the spring term course RE 6221. Course enrollment is by application. Prerequisites: RE 6411. Instructor consent required.

RE 6223 - Asset Management

Maximizing the return on real estate investments requires careful execution of a management plan for the asset. Topics examined include property management, leasing and marketing strategies, capital budgeting and ROI decisions, sustainability and efficiency, and hold/sell analysis. Prerequisite: RE 6411.

RE 6225 - Real Estate Capital Markets

Real Estate Investment Trusts (REITs) and Commercial Mortgage-Backed Securities (CMBS) are the largest class of traded equity and debt securities linked to commercial real estate, and are also the most informationally transparent part of the real estate capital markets. This course focuses on the analysis and valuation of REITs and CMBS. Prerequisite: RE 6411.

RE 6227 - Capital Sourcing and Structure

Examines the sourcing and structuring of real estate capital stacks. Both debt and equity structures are examined. Topics include platform/GP capital, syndication, Funds(closed-end, open-end, separate accounts), debt funds and balance sheet lenders, and subordinate debt structures (structured/mezzanine/preferred equity etc.) Prerequisite: RE 6411.

RE 6260 – Internship

Students are required to undertake an internship in the real estate industry or conduct a capstone research project. Working under the guidance of a mentor and/or a professor, students complete an internship/project, and submit a final report with conclusions and recommendations based on the experience. Prerequisite: Enrollment in M.S.R.E. Program.

SPRT 6100 - Core Practicum Capstone

Students gain the knowledge and tools to effectively manage their own careers. Topics include career development timelines and strategies, building and leveraging a professional network, and developing a personal career action plan. Prerequisite: SPRT 6420. Restricted to students enrolled in the M.S. in Sport Management (MSSM) program.

STAT 6383 - Statistical Shape Analysis

Statistical shape analysis involves methods for the geometric and topological study of a shape object. This course introduces theories and applications of modern statistical shape analysis, such as manifold learning and persistent homology. Various applications are be given, including machine learning, computer vision, imaging data, and other fields. In addition, the course provides an opportunity to extend various statistical shape analysis methods to students' research interests. This class does not assume knowledge of geometry and topology.

Inactivated Courses

ITOM 6215 - Database Design for Business Applications

ITOM 6218 - Business Analytics Consulting

ITOM 6220 - Revenue Management

ITOM 6224 - Managing Service Operations

MKTG 6212 - Advanced Marketing Communications Management

MKTG 6248 - Competitive Intelligence, War Gaming and Scenario Planning

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

MUED 6109 - Elementary Music Practicum

MUED 6358 - Kodály: A Historical Perspective

MUHI 6692 - Directed Studies in Music History

MUTH 5130 - Collaborative Composition

MUTH 6181 - Thesis in Composition

MUTH 6184 - Directed Studies in Theory

MUTH 6284 - Directed Studies in Theory

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

PERB 6212 - Organ Improvisation and Service Playing

Catalog Edits; New and Revised Programs and Policies

Cox School of Business

Sport Management, M.S.S.M.

Term 2 – Spring

Module A Courses

- MNO 6201 - Organizational Behavior: Managing and Leading People
- SPRT 6100 - Core Practicum Capstone
- SPRT 6224 - Case Studies in Sports Sponsorship
- SPRT 6225 - Advanced Sport Communication
- SPRT 6227 - Sports Facility Management

Dedman School of Law

The Curriculum

The Juris Doctor Program

First-Year Required Courses

- Civil Procedure (LAW 6405)
- Constitutional Law I (LAW 6366)
- Contracts (LAW 6406)
- Criminal Law (LAW 8341)
- Legal Research, Writing, and Research I and II (LAW 8375, LAW 8376)
- Legislation and Regulation (LAW 6365)
- Professional Identity and Development (LAW 7108)
- Property (LAW 6404)
- Torts (LAW 6403)

Comparative and International Law, LL.M. (the Masters of Law for International Lawyers)

Degree Requirements

Students in this program may begin their studies in the fall or spring terms. In addition, they must participate in an extensive orientation program held at the Dedman School of Law in mid-August or early January before the start of classes.

Students pursuing the LL.M. degree for foreign law school graduates must complete 24 hours of credit from courses or seminars selected in consultation with the student's faculty adviser, who is assigned during orientation. Faculty members advising candidates for this degree will make every effort to tailor a student's study plan to their specific graduate objectives. However, all students are required to take LAW 7293 - Perspectives of the American Legal System. In addition, many students take LAW 6394 - Business Associations for LL.M.s and/or LAW 7315 - International Business and Financial Transactions. Students whose degree plan includes externships for practical skills are required to take LAW 9100 - Legal Practical Training Internship and LAW 6110 - Legal Practical Training II. Students desiring to take LAW 6216 - Corporate Counsel Externship must elect the Business Track and comply with its requirements if they are studying under a student visa.

The Dedman School of Law awards the LL.M. degree to those students who complete their coursework with an average grade in all courses equivalent to a grade of C- or 1.7. A student will not receive credit for a course or seminar in which their grade is below D or 1.0. Students for whom English is a second language are allowed additional time to complete written final examinations.

The full-time tuition and fees for the program allow students to take between 8 and 14 hours a semester. To be considered full time, a student must take at least 8 credit hours. A student who enrolls in less than 8 credit hours is considered a part-time student in the program.

Laws (General), LL.M.

Degree Requirements

To receive the general LL.M. degree, the student must meet all of the following requirements:

- A. Residence in the Dedman School of Law for no fewer than two terms if a full-time student and no fewer than three terms if a part-time student.
- B. Completion of 24 credit hours in courses, seminars or research and writing recommended by the student's academic adviser. A student entering the program must have a GPA of C or 2.0 on all courses taken. The requisite GPA of C or 2.0 must be obtained in the first 24 credit hours. Students will not receive credit for a course or seminar in which their grade is below D or 1.0.
 - a. With prior approval of the Committee on Graduate Legal Studies, a student may take four of the required 24 credit hours in graduate programs in Dedman College of Humanities and Sciences, Perkins School of Theology or the Cox School of Business. The student will receive Dedman School of Law credit on completion of all work to the instructor's satisfaction, but the grades will not be computed into the student's law school average.
 - b. The student may be permitted to undertake directed research for a one-hour to three-hour graded paper if the student can obtain a faculty sponsor.
 - c. A student has the option of writing a master's thesis (for four to six credit hours). This thesis must be written under the direction of a professor at the Dedman School of Law and must be approved by both the professor and the Committee on Graduate Legal Studies. After the supervising professor approves the thesis, the student must submit four copies of the thesis to the Committee on Graduate Legal Studies at least 60 days before the date on which the student seeks to receive the degree. In writing the thesis, the student must comply with committee instructions. A thesis is either approved or disapproved; it is not graded.
- C. Completion of all requirements within 36 months from the date of initial registration as a graduate law student. However, a candidate continuously enrolled as a part-time student has 60 months to complete all requirements.
- D. Students shall prepare a memorandum discussing what they hope to accomplish in the General LL.M., which shall be given to their supervisor at the beginning of their studies. Students shall prepare a memorandum prior to graduation discussing how their degree program has fulfilled their goals and reflecting upon their experience in the program.

The full-time tuition and fees for the program allow students to take between 8 and 14 hours a semester. To be considered full time, a student must take at least 8 credit hours. A student who enrolls in less than 8 credit hours is considered a part-time student in the program.

Taxation, LL.M.

Degree Requirements

To receive the LL.M. (taxation) degree the student must meet all of the following requirements:

- A. Residence in the Dedman School of Law for no fewer than two terms if a full-time student and no fewer than three terms if a part-time student.
 - a. Completion of 24 credit hours in courses, seminars or research and writing. Of these 24 credit hours, 18 hours must be in the taxation area. Mandatory courses are LAW 7227 - Tax Accounting and LAW 7284 - Tax and Fiscal Policy.
 - b. With prior approval of the Committee on Graduate Legal Studies, a student may take four of the required 24 credit hours in graduate programs of Dedman College (SMU's school of humanities and sciences), in Perkins School of Theology or in the Cox School of Business. The student will receive Dedman School of Law credit on completion of all work to the instructor's satisfaction, but the grades will not be computed into the student's Dedman School of Law average.
 - c. The student may be permitted to undertake directed research for a one-hour to three-hour graded paper if they can obtain a faculty sponsor.
- B. Students entering the program must have a GPA of C or 2.0 on all courses taken. The requisite GPA of C or 2.0 must be obtained in the first 24 credit hours. Students will not receive credit for a course or seminar in which their grade is below D or 1.0.
- C. Completion of all requirements within 36 months from the date of initial enrollment as a graduate law student. However, a candidate continuously enrolled as a part-time student has 60 months to complete all requirements.

The full-time tuition and fees for the Program allow students to take between 8 and 14 hours a semester. To be considered full time, a student must take at least 8 credit hours. A student who enrolls in less than 8 credit hours is considered a part-time student in the program.

Lyle School of Engineering

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, Gorla 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

Clinical Associate Professor: M. Scott Kingsley

Assistant Professors: Sanjaya Lohani, Prasanna Rangarajan

Clinical 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 Wragg

Mechanical Engineering Faculty

Professor Amin Salehi-Khojin, **Chair**

Professors: Adel Alaeddini, Ali Beşkök, Ali Dogru, Xin-Lin Gao, Yildirim Hürmüzlü, MinJun Kim, Elizabeth Lobo, 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*
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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*

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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

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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, *Clinical 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

General Information

Bobby B. Lyle School of Engineering

Admission Requirements

Applicants for admission to the Graduate Division must have a minimum GPA of 3.000 on a 4.000 scale for all previous undergraduate and graduate studies. Three letters of recommendation are required for all doctoral applicants and for all applicants requesting financial aid. In addition, an official GRE graduate school admission test score is required in the following cases: 1) for all doctoral applicants; and 2) for all applicants requesting financial aid.

Graduate students applying for admission to the Lyle School of Engineering are required to pay an appropriate application fee, which must accompany the application. Applications will not be considered unless the complete official transcripts of the applicant's prior undergraduate and graduate work are in the possession of the SMU Office of Admissions. The transcript is regarded as official only if it is received directly from the registrar of the institution in which the work was done, or if it is an original and authenticated transcript bearing the institutional seal. A statement of purpose is required.

Graduates from foreign countries who apply to Ph.D. programs are required to submit three letters of recommendation. A notarized financial certification form verifying sufficient assets in the form of savings accounts must be received prior to issuance of a student visa. Applicants who do not speak English as their native language are required to supply scores on the TOEFL English language proficiency test or the IELTS English competency test. The minimum TOEFL score for admission to a Ph.D. program is 80, and the minimum IELTS score is 6.5 or Duolingo minimum score of 110.

This requirement is automatically waived for students who have received an undergraduate degree from an English-language institution, and who have been in residence at that institution for at least two years while earning their degree, located in one of the following countries: American Samoa, Australia, Bahamas, Barbados, Belize, Canada (except Quebec), Dominica, Ghana, Grenada, Grand Cayman, Guyana, Ireland, Jamaica, Kenya, Liberia, New Zealand, Nigeria, Singapore, South Africa, Trinidad/Tobago, Turks and Caicos Islands, United Kingdom, United States, U.S. Pacific Trust. International applicants for whom this requirement is not automatically waived but who believe they have demonstrated English-language proficiency may also request to have the requirement waived. These requests will be considered on a case-by-case basis.

Domestic students must apply and submit all requisite application materials by no later than July 1 for fall admission, November 15 for spring admission and April 15 for summer admission. All international students use the following dates: May 15 for fall admission, and September 1 for spring admission. Students apply for admission online at www.smu.edu/Lyle/ApplyNow.

Master of Science and Master of Arts Degrees

Admission to the Master's Program

Admission to the Graduate Division of the Lyle School of Engineering is a prerequisite to postbaccalaureate registration for any graduate course or to any program of graduate study. A student wishing to study for a master's degree may be admitted on either a regular or a conditional basis.

Regular Admission

After submission of a complete application, an applicant is evaluated for regular admission. Typically, the following requirements must be satisfied for regular admission:

Completion of a bachelor's degree from a U.S. college or university accredited by a regional accrediting association or completion of an international degree that is equivalent to a U.S. bachelor's degree from a college or university of recognized standing. Each program has additional information on appropriate academic backgrounds required for admission into that program. A minimum GPA of 3.000 on a 4.000 scale for all previous undergraduate and graduate studies. Submission of a complete application, including a statement of purpose, official transcripts for all previous undergraduate and graduate studies and payment of the appropriate application fee. A score at the 90th percentile or higher on the quantitative portion of the GRE graduate school admission test for the following programs:

- Computer Engineering
- Computer Science

Other Ph.D. and DE programs may have specific GRE requirements. Please see those program descriptions for specific admission requirements.

Graduates from foreign countries are required to submit three letters of recommendation and a notarized financial certification form. All international students whose native language is not English and who have not graduated from an American university must submit a minimum TOEFL English language proficiency test score before being considered for admission, as follows:

- 550 – paper-based examination.
- 213 – computer-based examination.
- 80– Internet-based examination overall score
- A score of 6.5 on the IELTS English language proficiency examination is acceptable in place of the above scores for the TOEFL examination.

Degree Requirements

The minimum credit hour requirement for the master's degree in the Lyle School of Engineering is 30 credit hours beyond the baccalaureate, of which six credit hours may be in a thesis. Additional hours may be required depending on the student's background, objectives of the degree program and the demands of the discipline.

Any student whose articulation into engineering or whose objective will require more than 12 credit hours of articulation courses will be denied admission to the Graduate Division. Such students should enroll in additional undergraduate courses until these deficiencies are removed. The major department should be consulted for counseling information.

All Lyle School of Engineering coursework satisfying degree requirements must be in graduate courses numbered 7000 and above.

All work for the master's degree must be completed no later than seven years after matriculation. Students must complete any required articulation courses with a minimum GPA of 3.000. Admission to candidacy is automatically achieved when the student has obtained 12 credit hours with a minimum 3.000 GPA and that student has filed a degree plan. A student who fails to achieve this standard of performance may be required to take additional courses to satisfy the requirements of their degree plan and to bring their GPA to 3.000 or better or may be asked to discontinue graduate study.

All work attempted for the master's degree must be completed with an overall GPA of 3.000 or better. A grade lower than C- obtained by a student will be figured into their overall GPA, but cannot be applied to their degree plan. Specific curricular requirements for Lyle master's degrees are detailed in departmental sections of this catalog.

Graduate International Student Pathways Program (GRISP)

The Graduate International Student Pathways (GRISP) program allows undergraduate students at select partner Universities to commence their Masters work at SMU after completing 3.5 years of their Bachelors program. The partner university will accept the Masters level course work completed at SMU in the students first semester towards their undergraduate degree. Typically, students will be required to take 9 credits in their first semester at SMU to maintain full-time status and these courses will be considered for transfer. The partner university will award the appropriate undergraduate degree after the completion of the first semester at SMU.

Admission requirements:

1. Be enrolled in an undergraduate engineering program in one of SMU's International partner institutions,
2. Have completed at least 120 semester credit hours (per typical USA equivalence) towards their undergraduate engineering degree,
3. Apply no later than the semester before they finish their undergraduate studies,
4. Typically, have an overall GPA of 3.0 or higher on a 4.0 scale (or equivalent score),
5. Provide three letters of recommendation, and
6. Be accepted into the desired M.A./M.S. program.

Please direct any questions related to participating partner universities to lylegrad@smu.edu.

Applied Science, Ph.D.

A Ph.D. degree in the Lyle School of Engineering may be pursued in areas that do not belong strictly to any one department but nevertheless are of interest to some faculty members of the school. In such cases, the composition of the supervisory committee will be made flexible in order to allow for the interdisciplinary nature of the program, with the single restriction that at least four of the five members of the supervisory committee are tenured or tenure-track faculty members in the Lyle School of Engineering. The major area of this degree will be designated as applied science. Admission to and oversight of program is at the discretion of a designated academic officer in the Lyle School of Engineering Dean's Office, who also serves as department chair.

Applicants to the program must meet all requirements for admission stated in the general admission requirements section for Doctor of Philosophy Degrees section of this catalog. Additionally, all applicants must secure the approval of a tenured or tenure-track member of the Lyle Engineering faculty to serve as dissertation adviser and dissertation committee chair, submit a tentative supervisory committee form with five members at least four of which must be tenured track Lyle faculty including the dissertation adviser, and submit a research proposal.

Electrical and Computer Engineering Department

Electrical Engineering, M.S.E.E.

Degree Requirements

Optional Master's Thesis

An M.S. thesis can be used in place of 6 hours of ECE courses, including 8000 level courses.

Network Engineering, M.S.

Admission Requirements

In addition to meeting the Lyle School of Engineering admission requirements for an M.S. degree, applicants are required to satisfy these additional requirements:

1. A B.S. in one of the sciences, mathematics or computer science or in one of the engineering disciplines, or a bachelor's degree in liberal arts or business with additional background in differential and integral calculus and physics.
2. Computer programming experience preferred.

Degree Requirements

In addition to meeting the Lyle School of Engineering degree requirements for an M.S. degree, candidates are required to satisfy these additional requirements:

Core Curriculum

Satisfactory completion of the core curriculum encompassing four courses:

- EETS 7301 - Introduction to Networks
- EETS 7302 - TCP/IP Network Administration
- EETS 7304 - Network Protocols
- EETS 8303 - Switching and Routing With Lab

Additional Courses

Satisfactory completion of additional courses, four of which must be from the list of advanced electives for a total of at least 30 credit hours. The courses may all be from the list of advanced electives; however, up to three additional electives can be substituted to fulfill degree requirements.

Advanced Electives

- EETS 7316 - Wireless, Cellular, and Personal Telecommunications
- EETS 7353 - Cloud Engineering
- EETS 7355 - Software Defined Network
- EETS 8304 - Multiprotocol Label Switching
- EETS 8313 - Internet Telephony
- EETS 8315 - Advanced Topics in Wireless Communication

- EETS 8317 - Switching and QoS Management in IP Networks
- EETS 8321 - Network Security
- EETS 8332 - Advanced Network Design With Lab
- EETS 8334 - Advanced Cloud Engineering
- EETS 8337 - Telecommunications Network Management
- EETS 8341 - Optical and DWDM Networks
- EETS 8353 - Network Automation and Programmability
- EETS 8355 - Data Center Network Engineering with Lab
- EETS 8357 - Development Operations (DevOps) for Network Engineers

Additional Electives

Elective courses may be taken from other departments in the Lyle School of Engineering with adviser approval. Examples include:

- CS 7349 - Data and Network Security
- ECE 7370 - Communication and Information Systems
- ECE 7379 - Optimization in Wireless Networks
- OREM 7370 - Probability and Statistics for Data Analytics
- OREM 8361 - Engineering Economics and Decision Analysis
- OREM 8362 - Engineering Accounting
- OREM 8363 - Engineering Finance
- OREM 8364 - Engineering Management

Meadows School of the Arts

General Information

Instructional Units and Programs of Study

Master of Arts

- Advertising
- Art History
- Arts and Nonprofit Management
- Arts and Nonprofit Leadership with a Master of Business Administration (in conjunction with Cox School of Business)
- Creative Technology
- Design Innovation (in conjunction with Lyle School of Engineering)

Simmons School of Education and Human Development

Sport Management, M.S.S.M.

Spring Module A

- MNO 6201 - Organizational Behavior: Managing and Leading People
- SPRT 6100 - Core Practicum Capstone
- SPRT 6224 - Case Studies in Sports Sponsorship
- SPRT 6225 - Advanced Sport Communication
- SPRT 6227 - Sports Facility Management

Module Total: 9 Credit Hours