Master of Science in Management Science (STEM Program)

The Masters of Science in Management Science (MS MSc) is a 36 semester credit hours STEM (Science, Technology, Engineering and Mathematics) degree program. It is a flexible and customizable degree program so students may choose their own course of study, selecting a variety of graduate courses offered by JSOM to satisfy the elective requirements.

Program Highlights
- Design a customized program of study that fits your specific needs
- Market demanded core courses that form the foundation of today’s business management
- Select any graduate elective courses or choose any concentration to gain an in-depth knowledge
- Convenient class scheduling, including online classes
- Internships/job placements with 36 months of OPT (international students only)
- Apply for graduate scholarships and international study trips
- Personalized career coaching
  - Internships/job placements with 36 months of OPT (international students only)
  - Work with the Career Management Center for internships and job placements
  - Networking and professional development opportunities
  - Free access to all career related resources

Degree Requirements
To apply for this degree program, an undergraduate degree is required (all majors are considered). Students must maintain a 3.0 grade-point average (GPA) in both core courses and in aggregate courses to qualify for the MS in Management Science degree. Students also can obtain a dual MS MSc and MBA degree by successfully completing a minimum of 63 semester credit hours (if all prerequisites are met).

Transfer credits may be granted for equivalent graduate course work taken at other universities with a grade of “B” or better within the past six years. Up to nine semester credit hours of course work from other universities may be waived from or transferred to the MS MSc program.

Prerequisites
Students pursuing the Master of Science in Management Science (MS MSc) degree program are required to complete one semester credit hour of MAS 6102 Professional Development course (except specialized Executive Education programs). In addition, knowledge of calculus is required and students who have not completed an undergraduate calculus course may satisfy the prerequisite by completing OPRE 6303 Quantitative Foundations in Business with a grade of "B" or better. Degree credit is not earned for program prerequisites, however, the grade achieved in prerequisites will count toward the student's grade-point average (GPA). All program prerequisites must be satisfied within the first semester of graduate study as a degree-seeking student. For more information visit: jindal.utdallas.edu/student-resources/advising/.

Core Courses (12 credit hours)
- MECO 6312 Applied Econometrics and Time Series Analysis
- MIS 6320 Database Foundations
- OPRE 6303 Quantitative Foundations in Business
- OPRE 6332 Spreadsheet Modeling and Analysis
Elective Courses: (24 credit hours)
As a highly flexible program, students may customize and choose their own course of study by selecting a variety of masters-level courses from any unrestricted prefix or catalog year offered by JSOM to satisfy the elective requirements, including a faculty lead international trip. Students are not required but are encouraged to focus on a specific or a combination of tracks (see samples below) to gain in-depth knowledge in a specific business area.

Sample Tracks
Tracks are informal collections of electives that address a student’s educational goals. It may be aligned with functional area specialties, or may cut across functional areas. Students may choose to concentrate in any of the areas listed below.

Accounting: In today's global and technology-driven environment, managers need skills to effectively analyze accounting information and make value-enhancing decisions. Students may select accounting courses to concentrate in financial analysis, consulting, corporate governance and tax management. This concentration can be further refined to the areas of assurance services, taxation and internal audit.

Business Analytics: A concentration in business analytics covers statistics and econometrics, predictive modeling, decision and optimization (prescriptive) modeling, and data management. Students are prepared for a position within marketing analytics, decision and operations analytics, financial analytics, healthcare analytics and IT analytics.

Finance: Students can prepare for careers in corporate finance, investment management, or the management of financial institutions. Courses in this area emphasize creative solutions to business financing problems, the development of value maximizing investment and financing strategies, and the analysis and management of fixed income and equity investments. Students may choose to concentrate in either corporate financial planning or the analysis of financial securities and investment portfolios.

Information Technology Management: Information technology is integral to all business operations and permeates all aspects of modern business and our courses will enable students to fully utilize information technology to solve business problems and gain strategic advantage. Advanced courses provide skills necessary for the "supply" side of information technology for IT consulting, software management and e-business.

Marketing: Students learn to understand customers' needs and purchase behaviors, how to satisfy those needs, and how to make a profit in competitive industries and markets. Topics include developing an effective marketing strategy, developing new products and managing different brands, and product categories. Students can also acquire expertise in pricing, advertising and promotions, market research, and retailing strategies.

Supply Chain Management: Students specializing in supply chain management gain an analytical understanding of how to leverage profits by continuously improving business processes. Effective integration of customers, suppliers, factories and stores through the coordination of various functional areas (marketing, finance, procurement) is an important theme. The area emphasizes using incentives, contracts and information technologies to foster efficiency and success.