Program Overview

A degree in management science provides you with the competencies to systematically analyze and improve business processes in manufacturing, health care, services and their supply chains.

A degree in management science is a good fit for people who:
• Like analyzing business problems and finding new, creative and practical solutions
• Enjoy learning through real-life, hands-on experience
• Are analytical and logical thinkers
• Enjoy working in teams

Management science majors at the Moore School pursue a concentration in global supply chain and operations management (GSCOM), which trains students in operations management, business process improvement, sourcing, quality control, distribution, logistics and supply chain management. Selected students may qualify to complete a Six Sigma Green Belt and/or may study to prepare for the American Production and Inventory Control Society (APICS) certification exam.

The Moore School’s undergraduate GSCOM program is currently ranked No. 12 in the nation and has one of the nation’s best job placement rates. Key strengths of the program include outstanding faculty, a curriculum that is regularly updated to reflect the latest industry trends and extensive opportunities for students to gain hands-on GSCOM experience.

Outcomes

In today’s marketplace, where organizations need to manage not only their own internal operations efficiently and effectively, but also must collaborate well with their upstream and downstream supply chain partners, the ability to plan, execute and improve business processes based on systematic data-driven analysis and problem-solving is in great demand. Competencies in designing, managing and improving internal operations and inter-organizational supply chains are highly sought out by employers in every sector.

GSCOM majors find attractive careers in global manufacturing firms in production/operations, sourcing, quality control, distribution, logistics and supply chain management; in service firms for general operations management and logistics/supply chain management; and in consulting firms as supply chain and business process improvement consultants.

Average starting base salary for May 2014 Moore School management science graduates was $59,300.

Degree Requirements
All management science majors complete the university’s general education requirements and the Moore School’s 40-hour business core in addition to 15 hours of coursework in the major. Students also complete a minor or approved course of directed study.

Coursework in the GSCOM program includes:

• Management Science 485: Business Process Management
• Management Science 486: Service Operations Management
• Management Science 487: Global Sourcing Strategies and Application
• Management Science 491: Supply Chain Management
• Management Science 497: GSCOM Capstone Project or
• Management Science 495: Supply Chain Planning and Control

*Note that these are 2015-16 degree requirements and are subject to change as the school regularly updates its curriculum in response to the evolving needs of the business community.

Management Science Spotlight: Lean Six Sigma Green Belt Certificate/APICS coursework
The Moore School’s global supply chain and operations management program is the only academic program in the nation that offers students the opportunity to earn an industry-validated Lean Six Sigma Green Belt certification. Earning Green Belt certification signals to employers that you are highly trained in the six sigma process improvement protocol that is in wide use in many industry sectors. Most operations and supply chain managers earn the Green Belt while on the job. Moore School GSCOM students who graduate with the Green Belt are prepared to bring added value to their employers from day one.

As an alternative, students may also enroll in our APICS professional certification preparatory program. This program delivers the first four-fifths of a curriculum that has been used to educate more than 75,000 professionals on essential terminology, concepts and strategies related to demand management, procurement and supplier planning, capacity requirements planning, master scheduling, performance measurements, supplier relationships, quality control and continuous improvement. Students graduate prepared to pass the first four modules of the APICS certification “Certified in Production and Inventory Management.”