

Table of Contents

Supply Chain Management and Engineering.....1

Supply Chain Management and Engineering

Master of Science in Supply Chain Management and Engineering

The Master of Science in Supply Chain Management and Engineering Program is an online program oriented toward developing the technical and managerial knowledge of current and future supply chain professionals. The program emphasizes a holistic approach to designing and managing supply chains. The Program takes advantage of the resources and technology of the College of Business and the College of Engineering in a joint venture that produces graduates with technical skills that prepare them for supply chain leadership positions in industry and government.

Program Description

Collaborative supply networks are critical for purchasing, transferring, and distributing material in an increasingly global economy where outsourcing is an important strategic practice in today's firm. In addition, supply chain and logistics costs are a significant portion of operating expenses for today's production and service organizations. Consequently, organizations can seize a large opportunity to impact supply chains that take advantage of leading-edge technical developments in supply chain design, analytics and quality. The Master of Science in Supply Chain Management and Engineering's technical focus will allow uniquely qualified graduates to have immediate value in analyst, purchasing, operations, and consulting positions.

The College of Business and the College of Engineering offer state-of-the-art online programming. The faculty and staff in both colleges are uniquely positioned to deliver this curriculum, which will help today's engineers and managers gain a competitive advantage in today's employment market for supply chain and logistics managers. This online program has a focus on Supply Chain Management (Management) and Quality (Engineering) that is consistent with challenges and opportunities that managers will experience in organizations today.

Proposed Curriculum

The Master of Science in Supply Chain Management and Engineering Program requires 36 credit hours over four semesters, including a summer term. Semesters are divided into eight-week blocks. Students will take two three-credit courses the first eight-week block of each semester, and then take one three-credit course in the second eight-week block. The Program is delivered in an asynchronous online format.

Course Requirements

36 total semester hours (three hours/course) after satisfying the M.B.A. and Industrial Management and Applied Engineering foundation requirements with prerequisites.

Required Courses:

- BA 512 Supply Chain Cost Accounting
- BA 523 Innovation and Supply Chains
- BA 541 Analytic Methods for Supply Chain Management
- BA 544 Advanced Production Planning and Inventory Management
- BA 553 Supply Markets and Negotiation
- BA 565 Managing Supply Chain Information
- QEM 546 Project Management for Supply Chain Engineering

- QEM 560 Supply Chain Engineering
- QEM 562 Transportation and Logistics Systems
- QEM 564 Facilities and Location Planning
- QEM 583 Analysis of Statistical Quality Data
- QEM 585 Advanced Data Analysis & Design of Experiments

Admissions Requirements

Prospective degree candidates are expected to demonstrate a readiness for graduate study and an aptitude for successful performance in graduate level work. Admission to the program is based on the applicant's undergraduate record, a satisfactory score on the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE), and other evidence pertaining to ability to perform well in graduate work. Special circumstances and work experience may be considered if presented.

More specifically, the applicant must:

1. Meet all admission requirements set forth by the Graduate School. These requirements are outlined elsewhere in the catalog.
2. Complete the Graduate Management Admission Test (GMAT) or Graduate Record Examination (GRE) and have the results of the test mailed directly to the Graduate Programs Office, College of Business. Information for the Graduate Management Admission Test (GMAT) can be found at: www.mba.com/. Information for the Graduate Record Examination (GRE) can be found at: ets.org/gre.

Academic Retention

In addition to the retention policies of the Graduate School, a student may earn no more than five hours of C or lower in graduate courses taken beyond the foundation requirements, or he/she will be suspended from the Master of Science in Supply Chain Management and Engineering program. A student who has three outstanding recorded grades of INC or DEF at the end of any semester or session, for any reason, will be deemed to be not making normal progress and will be placed on probationary status. If the student has three outstanding grades of INC or DEF remaining on record at the end of the next semester or session, the student will be suspended from the program. The definitions of INC and DEF may be found in the Graduate Catalog. A student who is to receive a grade of INC in a course is to meet with the instructor to work out a time and conditions for completion of the course within policy guidelines. Typically, a Notification of Incomplete Grade Agreement form is completed and the student is provided with a copy.

Supply Chain Management and Engineering Courses

Supply Chain Management and Engineering Faculty

College of Business Graduate Faculty Members:

DeYong, Gregory D., Assistant Professor of Management, Ph.D., Indiana University, 2010; 2013. Inventory Management, Production Scheduling, and Supply Chain Management.

Goodale, John C., Associate Professor of Management. Ph.D., University of Utah, 1996; 2009. Workforce Scheduling and Service Supply Chains.

Hendricks, Scott P., Clinical Assistant Professor, C.P.A., M. Acc., J.D. Southern Illinois University, 1983. Accounting.

Lee, Jaehoon, Assistant Professor, Ph.D., University of Texas at San Antonio, 2011; 2014. Consumer behavior.

Mykytyn, Peter P., Jr., Professor and *Chair*, Ph.D. Arizona State University, 1985; 2001. Management information systems.

College of Engineering Graduate Faculty Members:

Chang, Feng-Chang (Roger), Associate Professor, *Emeritus*, of Industrial Management and Applied Engineering, Ph.D., Ohio State University 1985; 1991. Manufacturing Systems, Quality Management, and Supply Chain Management.

DeRuntz, Bruce D., Professor of Industrial Management and Applied Engineering, Ph.D., Southern Illinois University, 2005; 2005. Project Management and Quality Management.

Dunston, Julie K., Associate Professor of Industrial Management and Applied Engineering, Ph.D., Florida State University, 1995; 1995. Manufacturing Processes Quality Management, and Control Systems.

Velasco, Thomas, Associate Professor of Industrial Management and Applied Engineering, Ph.D., University of Arkansas, 1991; 1993. Industrial Engineering, Quality Management and Supply Chain Management.

Last updated: 02/26/2020

Southern Illinois University

Carbondale, IL 62901

Phone: (618) 453-2121

Catalog Year Statement:

Students starting their collegiate training during the period of time covered by this catalog (see bottom of this page) are subject to the curricular requirements as specified herein. The requirements herein will extend for a seven calendar-year period from the date of entry for baccalaureate programs and three years for associate programs. Should the University change the course requirements contained herein subsequently, students are assured that necessary adjustments will be made so that no additional time is required of them.