

SUPPLY CHAIN MANAGEMENT (MSSCM)

The STEM-designated Master of Science in Supply Chain Management focuses on real world challenges related to moving goods globally – on time and on budget. This program will enable you to understand the issues and solve the complex challenges.

Curriculum

The Master of Science in Supply Chain Management's 12-course curriculum¹ prepares you to be a responsible leader in the supply chain field. Students may be required to take ISSCM 491 in addition to the courses below, depending on their academic background.²

Code	Title	Hours
Required Courses		
INFS 443	Business Analytics	3
ISSCM 495	Forecasting Methods	3
SCMG 480	Intro to Operations Management ³	3
SCMG 486	Global Logistics	3
SCMG 487	Purchasing Management	3
SCMG 488	Inventory Management	3
SCMG 489	Supply Chain Analytics	3
Ethics Requirement		
Select one of the following:		3
MGMT 441N	Business Ethics	
MGMT 446	International Business Ethics	
INFS 795	Ethics and Data Analytics ⁴	
Electives		
Select three (or four, if SCMG 480 is substituted)		9
FINC 620	Financial Mathematics and Modeling I	
INFS 492	Database Systems	
INFS 493	Strategic Use of Database Analytics	
INFS 494	Data Mining	
INFS 592	Data Visualization	
INFS 791	Programming for Business Decision Making	
INFS 795	Ethics and Data Analytics ⁴	
INFS 796	Data Warehousing	
INFS 797	Applications of Visualization	
ISSCM 484N	Project Management	
ISSCM 595N	Decision Analysis	
MGMT 573	Business Strategy	
	or MGMT 574 Corporate Strategy	
SCMG 481	Performance Improvement in Business Processes	
SCMG 482	Lean Production Concepts and Practices	
SCMG 483	Management of Service Operations	
Capstone Course		
SCMG 589	Supply Chain Management Consulting ⁵	3
Total Hours		36

¹ Program requirements are subject to change based on course/instructor availability.

² The prerequisite requirement is met if you have completed a minimum of one undergraduate course (3 credit hours) of comparable content in the prerequisite subject area within the last seven years with a grade of B (or equivalent) or higher if the course is determined appropriate by their academic advisor.

³ This course can be substituted with a program elective by the approval of the academic director and depending on the academic background. Typically, you need to have completed a minimum of one undergraduate course (3 credit hours) of comparable content in the subject area within the last five years with a grade of B (or equivalent) or higher if the course is determined appropriate by their academic advisor.

⁴ INFS 795 may be taken to fulfill the Ethics requirement **OR** the Electives requirement, not both.

⁵ All required courses must be completed prior to or concurrently with SCMG 589.

Suggested Sequence of Courses

The below sequence of courses is meant to be used as a suggested path for completing coursework. An individual student's completion of requirements depends on course offerings in a given term as well as the start term for a major or graduate study. Students should consult their advisor for assistance with course selection.

Course	Title	Hours
Term 1		
SCMG 480	Intro to Operations Management	3
	Ethics course	3
Hours		6
Term 2		
INFS 443	Business Analytics	3
	Select one from Electives	3
Hours		6
Term 3		
SCMG 487	Purchasing Management	3
SCMG 589	Supply Chain Management Consulting	3
Hours		6
Term 4		
SCMG 486	Global Logistics	3
	Select one from Electives	3
Hours		6
Term 5		
ISSCM 495	Forecasting Methods	3
SCMG 489	Supply Chain Analytics	3
Hours		6
Term 6		
SCMG 488	Inventory Management	3
	Select one from Electives	3
Hours		6
Total Hours		36

Learning Outcomes

- Goal 1: Technical Knowledge: Graduates will be proficient in advanced knowledge of supply chain management and methodologies for optimization, transportation, inventory, purchasing management, supply chain analytics, and risk analysis. This comprehensive skill set

will enable them to become effective leaders capable of optimizing operations and making informed decisions in a dynamic business environment.

- Goal 2: Critical Decision Making: Graduates will become adept at assessing risks, identifying opportunities for improvement, and devising innovative strategies to enhance supply chain efficiency and overall performance. Equipped with strong critical thinking skills, graduates will be well-prepared to tackle the complexities and uncertainties inherent in supply chain operations, contributing to the success and competitiveness of the organizations they serve.
- Goal 3: Ethics and Responsible Leadership: Graduates will understand how to be a leader in business who exhibits personal integrity, ethical awareness, and an ability to apply ethical principles to business practice.
- Goal 4: Global Perspective and Awareness of Diversity: Graduates will have a global perspective by recognizing international business issues and appreciating diversity, including culture, race, religion, and gender.
- Goal 5: Communication: Graduates will be able to communicate effectively, orally and in writing.