

# Supply Chain Management (SCM)

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## Courses

### SCM 3040. Principles of Supply Chain Management. Units: 3

Semester Prerequisite: ADMN 2100. Quarter Prerequisite: ADMN 210  
Introduction to supply chain management concepts and techniques. Methods that aid the manager in making rational decisions in manufacturing and service industries are discussed. Emphasis is on the application of models to managerial decision making. Formerly offered as SCM 304.

### SCM 3050. Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM 3040 or consent of instructor. Quarter Prerequisite: SCM 304 or consent of instructor  
Foundation for enterprise resource planning and implementation, including supply chain and transportation management modeling and operations planning. Configuration and application of an enterprise system. Formerly offered as SCM 305. Also offered as IST 3050. Students may not receive credit for both.

### SCM 3500. Problem Solving and Decision Making. Units: 3

Semester Prerequisite: ADMN 2100. Quarter Prerequisite: ADMN 210  
This course covers many approaches in solving business problems from a managerial point of view. Students experiment with typical techniques and learn why/how these techniques work. Spreadsheets are used to experiment with such techniques. Emphasis is placed on input requirements and interpretation of results. Topics include: what-if analysis, networks, decision trees, sensitivity analysis, and goal seeking. Formerly offered as SCM 350. Also offered as IST 3500. Students may not receive credit for both.

### SCM 4400. Transportation Systems Management. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304  
Analysis of alternative transportation modes, carriers, services, rates and policies as related to overall operation of an organization's shipping and/or traffic departments. Formerly offered as SCM 440.

### SCM 4450. International Logistics. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304  
Logistics management involving goods and services in different countries. International business environment, international transportation, intermediaries, import/export regulations, payment and risks, and cultural differences of the global supply chain. Formerly offered as SCM 445.

### SCM 4700. Advanced Supply Chain and Logistics Management. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304  
Comprehensive study of all activities and processes to supply products or services to final customers. Topics include: purchasing, logistics and supply chain optimization, risk management, inventory control, warehouse and distribution management. Formerly offered as SCM 470.

### SCM 4750. Supply Chain Business Analytics. Units: 3

Semester Prerequisite: ADMN 2100. Quarter Prerequisite: IST 274  
Comprehensive practice of the Business Analytics process, including forecasting, data extraction and mining, analytical modeling, detailed analysis, and reporting utilizing business cases. Formerly offered as SCM 475.

### SCM 4800. Quality Management. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304  
Description and analysis of quality assurance programs and techniques and their many applications in supply chain and transportation from a total quality management perspective. Topics include quality planning, statistical quality control, quality design and measurement, and management of six sigma quality and inspection. Formerly offered as SCM 480.

### SCM 5050. Advanced Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM 3040 or SCM 6070. Quarter Prerequisite: SCM 304 or SCM 607  
Advanced study of enterprise systems planning in different stages of organizational operations. Students use enterprise planning technology to examine cases in different organizational settings. Formerly offered as SCM 505. Also offered as IST 5050. Students may not receive credit for both.

### SCM 5150. Project Management. Units: 3

This course introduces students to project management theory, terms and concepts. Students will learn about project management constraints and their impact on a project's ability to meet business goals: time, cost, and performance. Students will learn techniques to manage people and how the workforce will impact, and be impacted by, the project management constraints. Topics include: project life cycle, how to build a successful project from pre-implementation to completion, sequencing and budgeting, project evaluation and control, project feasibility, risk analysis, resource allocation and project management tools. Formerly offered as SCM 515. Also offered as IST 5150. Students may not receive credit for both.

### SCM 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator  
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

### SCM 5915. Seminar in Supply Chain Management. Unit: 1

Semester Prerequisite: SCM 3040 and consent of instructor. Quarter Prerequisite: SCM 304 and consent of instructor  
An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change.

**SCM 5930. Seminar in Supply Chain Management. Units: 3**

Semester Prerequisite: SCM 3040 and consent of instructor. Quarter Prerequisite: SCM 304 and consent of instructor

An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as SCM 590.

**SCM 5951. Independent Study. Unit: 1**

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

**SCM 5952. Independent Study. Units: 2**

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

**SCM 5953. Independent Study. Units: 3**

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

**SCM 5955. Independent Study. Unit: 1**

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

**SCM 6070. Managing the Supply Chain. Units: 3**

Integration and application of analytical techniques used in logistics and supply chain management. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Formerly offered as SCM 607.

**SCM 6110. Global Supply Chain Management and Logistics. Units: 3**

Semester Prerequisite: SCM 6070. Quarter Prerequisite: SCM 607 Development, implementation and integration of global supply chain management and operations management strategy with business and other functional strategies of an organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. Formerly offered as SCM 611.

**SCM 6140. Advanced Quality Management. Units: 3**

Semester Prerequisite: SCM 6070. Quarter Prerequisite: SCM 607 Technical and managerial issues for implementing total quality management in operations, supply chain and logistics. Topics include the management of quality planning, organizing, motivation and control; employee involvement teams for total quality; the quality of product design; management of quality and reliability; management of inspection and measurement. Formerly offered as SCM 614.

**SCM 6600. Transportation and Supply Chain Management. Units: 3**

Semester Prerequisite: SCM 6070. Quarter Prerequisite: SCM 607 Comprehensive study of managing transportation and the supply chain. Logistics of managing the pipeline of goods from initial contracts with suppliers and control of work-in-process to the movement of finished goods through the channels of distribution. Formerly offered as SCM 660.

**SCM 6620. Business Analytics and Decision Making. Units: 3**

Semester Prerequisite: IST 6090 or consent of instructor. Quarter Prerequisite: IST 609

The course provides an overview of the wide area of data analytics, with a particular focus on to the tools required to store, clean, manipulate, visualize, model, and ultimately extract information from various sources of data as well as an introduction to deterministic decision-making, decision making under uncertainty/risk, and application of optimization decision analysis tools. Topics include the analytics life cycle, data integration and modeling, the use of univariate and multivariate statistical methods to analyze data, relational databases and SQL, text processing and sentiment analysis, data visualization and the use of Business Intelligence Tools for modeling and decision support. Offered as IST 6620 and SCM 6620, students may not receive credit for both. Formerly offered as IST 650.

**SCM 6755. Internship. Unit: 1**

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

### **SCM 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1**

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

### **SCM 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6**

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities.

See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.