

Supply Chain Management - SCMN

Courses

SCMN 2150 PRINCIPLES OF SUPPLY CHAIN MANAGEMENT (2) LEC. 2. Fundamental concepts, activities, and tools of supply chain management.

SCMN 3100 FOUNDATIONS OF BUSINESS LOGISTICS (3) LEC. Pr. SCMN 2150. The course provides an introduction to logistics activities and processes from a supply chain perspective. Foundational concepts, current issues, and strategies used to obtain competitive advantage in a global business environment will be addressed. For Non-SCM Majors and Non-SCM Minors only. Credit will not be given for both SCMN 3710 and SCMN 3100.

SCMN 3710 LOGS: MNGT OF FULFILLMENT PROC (3) LEC. 3. Pr. SCMN 2150 or SCMN 2153 or SCMN 3150 or SCMN 3153. SCMN 2150/2153 requires a grade of 'C' or better. Management of logistics processes involved in meeting customer demand, including inventory, transportation, distribution, and related activities. Fall, Spring, Summer.

SCMN 3720 TRANSPORTATION AND ORDER FULFILLMENT (3) LEC. 3. Pr. SCMN 2150. Pre-requisite requires a grade of 'C' or better. Management of transportation and distribution activities involved in the order fulfillment process. Fall, Spring.

SCMN 3730 STRATEGIC SOURCING (3) LEC. 3. Pr. SCMN 2150. Pre-requisite requires a grade of 'C' or better. Addresses the scope of activities and various roles of the procurement function within the organization and between firms. Fall, Spring.

SCMN 3740 SUPPLY & DEMAND INTEGRATION (3) LEC. 3. Pr. SCMN 2150. Credit will not be given for both SCMN 3710 and SCMN 3740. SCMN 3740 is a foundational supply chain course that is focused on the key concepts and decisions needed to align supply with demand. This course is designed to provide an overview of supply chain planning to achieve integration in all time horizons- short, intermediate, and long term.

SCMN 3810 PROFESSIONAL DEVELOPMENT IN SUPPLY CHAIN MANAGEMENT (1) LEC. 1. SU. Pr. SCMN 2150 and P/C BUSI 2010. SCMN majors only. Career planning and preparation for supply chain internships and professional experience opportunities. Credit will not be given for both SCMN 3810 and BUSI 3010 or SCMN 4810. Fall, Spring.

SCMN 3910 PRACTICUM IN SUPPLY CHAIN MANAGEMENT (1-3) PRA. 1-3. SU. Pr. (SCMN 2150 or SCMN 2153 or SCMN 3150) and (CTCT 3250 or CTCT 3253). Departmental approval. CTCT 3250/3253 requires a grade of 'C' or better. SCMN majors only. Cooperatively selected field activity to gain practical SCM experience. Course may be repeated for a maximum of 6 credit hours.

SCMN 3920 INTERNSHIP IN SUPPLY CHAIN MANAGEMENT (0-6) INT. SU. Pr. (SCMN 3720 or SCMN 3730 or SCMN 3740) and (CTCT 3250 or CTCT 3253) and SCMN 3810. Departmental approval. Prerequisites require a grade of 'C' or better. SCMN majors only. Professional work experience in a supply chain focused position. Course may be repeated for a maximum of 6 credit hours.

SCMN 4620 SUSTAINABLE SUPPLY CHAIN MANAGEMENT (3) LEC. 3. Pr. SCMN 3730. Pressure from customers, policy makers and non-governmental organizations compels companies to address the environmental footprint of their operations and the social impact they have on local communities. This course focuses on the "triple bottom line," which addresses how a company must strategically incorporate environmental, social and economic dimensions.

SCMN 4700 SUPPLY CHAIN PERFORMANCE MANAGEMENT (3) LEC. 3. Pr. (SCMN 3710 or SCMN 3740) and SCMN 3720 and SCMN 3730 and CTCT 3250. Pre-requisites require a grade of 'C' or better. Understanding and managing supply chain performance through the use of metrics, analysis, and improvement strategies. Fall, Spring.

SCMN 4710 SUPPLY CHAIN ANALYTICS (3) DSL/LEC. Pr. BUAL 2650 and SCMN 3720. A survey of analytical methods used in the management of supply chains. Emphasis is placed on recognizing which method is appropriate, what type of data is required, and effective communication of the results in business terms.

SCMN 4720 TRANSPORTATION STRATEGY & ANALYTICS (3) DSL/LEC. Pr. SCMN 3720. This course is designed to provide an overview of the key elements of corporate transportation management. The course will focus on the key skills and analytics needed to identify, select, manage, monitor, and optimize a shipper's transportation carrier base.

SCMN 4730 SUPPLY CHAIN TOOLS AND TECH (3) LEC. 3. Pr. SCMN 3730 and SCMN 3720. Tools, techniques and technologies of various supply chain processes.

SCMN 4740 SUPPLY CHAIN MODELING (3) DSL/LEC. Pr. SCMN 3740. This course provides an overview of several tools, techniques and technologies used in supply chain management. Topics covered include problem solving and decision making using linear programming simulation and optimization techniques, forecasting methods, game simulation, and process modeling.

SCMN 4750 ENTERPRISE SYSTEMS IN SUPPLY CHAIN MANAGEMENT (3) LEC. 3. Pr. SCMN 4700 and SCMN 4730. This course provides detailed hands-on training on ERP systems using SAP. The course will cover end to end ERP operation, including procurement, manufacturing, sales & distribution, human resources, cost and management accounting, etc. At the end of this class, students who complete it with a B or above will automatically be eligible for their SAP Recognition Certificate provided they have also passed SCMN 4730 and SCMN 4700 with B or above.

SCMN 4770 SUPPLY CHAIN OPERATIONS MANAGEMENT (3) LEC. 3. Pr. SCMN 3730 and SCMN 3720. Review and application of current supply chain strategies processes and information technologies required to compete in today's global marketplace. The course will focus on presenting key manufacturing management techniques used to balance supply with demand to ensure customer satisfaction.

SCMN 4800 SUPPLY CHAIN STRATEGY: A GLOBAL PERSPECTIVE (3) LEC. 3. Pr. (SCMN 3710 or SCMN 3713 or SCMN 3740) and SCMN 3720 and SCMN 3730 and (CTCT 3250 or CTCT 3253). Pre-requisites require a grade of "C" or better. Capstone course providing an intensive study of strategies used to facilitate global flows of product, information, and payments. Fall, Spring, Summer

SCMN 4820 SUPPLY CHAIN CONSULTING (3) LEC. 3. Pr. (BUAL 2600 or BUAL 2603 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 2513 or STAT 2610 or STAT 3010 or STAT 3600) and BUAL 2650 and SCMN 3920. This special topic course is intended to help develop essential skills in planning and executing a company-focused consulting project.

SCMN 4900 DIRECTED STUDIES IN SUPPLY CHAIN MANAGEMENT (1-3) LEC/SEM. Departmental approval. Advanced individual research of SCM topic under direction of a faculty member. Course may be repeated for a maximum of 3 credit hours.

SCMN 4970 SPEC TOPS IN SUPPLY CHAIN MGMT (3-6) LEC. 3-6. Pr. SCMN 3720 and SCMN 3730. Current topics and issues related to the field of supply chain management. Course may be repeated for a maximum of 6 credit hours.

SCMN 5390 INTEGRATING BUSINESS PROCESSES WITH ERP (3) LEC. 3. Pr. (SCMN 3710 or SCMN 3713) and SCMN 3720. Examination of how integrating business processes in ERP environment promotes strategic alignment and performance gains for an organization. May count either SCMN 5390 or SCMN 6390.

SCMN 5500 INVENTORY AND WAREHOUSE MANAGEMENT (3) LEC. 3. Pr. SCMN 3710 and SCMN 3720. Departmental approval. Course focuses on issues related to managing inventories in a supply chain. Topics include: role of inventory in supply chains, inventory-related policies and decisions, and dealing with supply and demand uncertainty. Issues related to safety stock and replenishment planning, impact of lead times, and management of multi-echelon supply chains are covered. Additional issues related to warehousing inventory, such as storage and slotting policies, receiving and put away, order picking strategies and warehouse management are covered.

SCMN 5600 SUPPLY CHAIN PLANNING (3) LEC. 3. Pr. SCMN 3710 and SCMN 3720. Departmental approval. This course focuses on long-term and short-term planning of supply chains to provide a strategic fit with business objectives. Topics include: framework for supply chain planning and decision-making, distribution network designs and managing uncertainty, demand forecasting and aggregate planning. Issues related to supply chain coordination and planning for product availability under service levels are also covered. Additional issues related to sales and operations planning, managing economies of scale and revenue management are also covered.

SCMN 5720 QUALITY & PROCESS IMPROVEMENT (3) LEC. 3. Pr. SCMN 2150 and (BUAL 2600 or BUAL 2603 or STAT 2010 or STAT 2017 or STAT 2510 or STAT 2513 or STAT 2610 or STAT 3010 or STAT 3600) and P/C BUAL 2650. Fundamentals of process improvement; techniques for performing quality control functions; quality management systems.

SCMN 6390 INTEGRATING BUSINESS PROCESSES WITH ERP (3) LEC. 3. LAB. 0. Examination of how integrating business processes in ERP environment promotes strategic alignment and performance gains for an organization. Credit will not be given for both SCMN 5390 and SCMN 6390.

SCMN 6500 INVENTORY AND WAREHOUSE MANAGEMENT (3) LEC. 3. This course focuses on issues related to managing inventories in a supply chain. Topics include: role of inventory in supply chains, inventory-related policies and decisions, and dealing with supply and demand uncertainty. Issues related to safety stock and replenishment planning, impact of lead times, and management of multi-echelon supply chains are covered. Additional issues related to warehousing inventory, such as storage and slotting policies, receiving and put away, order picking strategies and warehouse management are covered.

SCMN 6600 SUPPLY CHAIN PLANNING (3) LEC. 3. This course focuses on long-term and short-term planning of supply chains to provide a strategic fit with business objectives. Topics include: framework for supply chain planning and decision-making, distribution network designs and managing uncertainty, demand forecasting and aggregate planning. Issues related to supply chain coordination and planning for product availability under service levels are also covered. Additional issues related to sales and operations planning, managing economies of scale and revenue management are also covered.

SCMN 6720 QUALITY & PROCESS IMPROVEMENT (3) LEC. 3. Fundamentals of process improvement; techniques for performing quality control functions; quality management systems. Fall, Spring. Student should have completed a basic statistics course prior to enrolling in SCMN 6720.

SCMN 6900 DIRECTED STUDIES (3) IND. SU. This course is a self-learning course designed to enhance the student's knowledge of a selected topic. The course will be designed individually for each student with agreement between the student and the professor. Coursework may include traditional exams, readings, papers, or more specific projects and tasks depending on the material and the goal of the student. Course may be repeated for a maximum of 9 credit hours.

SCMN 6960 SPECIAL PROBLEMS (3) IND. This course is a self-learning course designed to enhance the student's knowledge of a selected topic. The course will be designed individually for each student with agreement between the student and the professor. Coursework may include traditional exams, readings, papers, or more specific projects and tasks depending on the material and the goal of the student. Course may be repeated for a maximum of 9 credit hours.

SCMN 7600 SUPPLY MNGT AND MANUFACTURING (3) LEC. 3. Pr. P/C BUSI 7150. The management of purchasing, supply and materials management, manufacturing processes related to the fulfillment of supply chain requirements. Spring.

SCMN 7700 DEMAND MNGT & FULFILLMENT (3) LEC. 3. Pr. P/C BUSI 7150. The management of logistical processes related to the fulfillment of supply chain requirements. Primary topics include integrated planning, operations, and performance analysis of demand, inventory, transportation, distribution, and customer relationships. Summer.

SCMN 7770 SUPPLY CHAIN MANAGEMENT (3) LEC. 3. Problems and analysis in the design and management of the retail, industrial and service supply chain.

SCMN 7800 SUPPLY CHAIN STRATEGY (3) LEC. 3. Pr. P/C BUSI 7150. Advanced study of integrated supply chain theory, strategy, and practice. Topics include network design, collaboration, inventory visibility, process synchronization, information management, and financial analysis. Fall.

SCMN 7900 DIRECTED STUDIES (3) IND. SU. Departmental approval. This course is a self-learning course designed to enhance the student's knowledge of a selected topic. The course will be designed individually for each student with agreement between the student and the professor. Coursework may include traditional exams, readings, papers, or more specific projects and tasks depending on the material and the goal of the student. Course may be repeated for a maximum of 9 credit hours.

SCMN 8150 DOCTORAL SEMINAR ON CURRENT TOPICS IN SCM RESEARCH (3) LEC. 3. LAB. 0, SEM. 0. The class is a rigorous, seminar style course on Current Topics in SCM Research. Each class will familiarize you with the key insights in a current research topic (i.e., the "hot topics") in the SCM area. The instructor has chosen to cover a broad range of active research to give you an overview of topics that people are working on currently and are likely to work on in the future.

SCMN 8250 LSCM INTERORGANIZATIONAL THEORY SEMINAR (3) LEC. 3. LAB. 0, SEM. 0. This is an advanced theories seminar in logistics and supply chain management (LSCM). This seminar is designed to expose doctoral students to accepted research grounding in LSCM and train students to be successful researchers. Management history and ten core theories are covered. We will be discussing seminal articles in-depth with a connection to recent works. These articles are published in top journals in LSCM, Economics, International Business, Management, Marketing, and Sociology.

SCMN 8350 EMPIRICAL METHODS IN SUPPLY MANAGEMENT RESEARCH (3) LEC. 1.5. LAB. 1.5. This course provides students with an overview of quantitative empirical research in major supply chain journals. Students will read and synthesize articles in top SCM journals which employ a variety of quantitative, empirical strategies. They will be provided with instruction on the application of a variety of approaches in Stata to analyze data. Students will also perform their own quantitative analysis with data of their choice.

SCMN 8450 HISTORY OF SUPPLY CHAIN MANAGEMENT & OPERATIONS RESEARCH (3) LEC. 3. LAB. 0, SEM. 0. In this seminar, students should gain a broad understanding of SCM topics in which prior scholars have conducted academic research. A review of the key ideas and principles scholars have addressed is undertaken to critically assess how the primary research streams in SCM have developed. Understanding this development will require considerable reading and thoughtful analysis outside of class.

SCMN 8550 SEMINAR IN GLOBAL SUPPLY CHAIN MANAGEMENT (3) LEC. 3. LAB. 0, SEM. 0. In this seminar, students will gain a broad understanding of global topics connected with SCM. A review of the key ideas and principles in International Business, Cross Border Trade, and Customs Unions are discussed. The role of tariffs, import and export barriers, and free trade on local and global economies are discussed and debated in detail.

SCMN 8650 RESEARCH METHODS IN SUPPLY CHAIN MANAGEMENT - 2 (3) LEC. 0. LAB. 0, SEM. 0. In this seminar, students will gain a deep understanding of statistical and methodological issues in SCM scholarship (especially latent variables). A review of the advanced topics is offered including usage in STATA or SAS. Students may be expected to demonstrate hands on expertise in these topics including writing code, implementing the methods, interpreting results and understanding their implications.

SCMN 8750 EXPERIMENTAL METHODS IN SUPPLY CHAIN MANAGEMENT (3) LEC. 0. LAB. 0, SEM. 0. In this seminar, students will gain a deep understanding of statistical and methodological issues in SCM scholarship (with a focus on experiments). A review of the topics is offered including usage in STATA or SAS. Students may be expected to demonstrate hands on expertise in these topics including writing code, implementing the methods, interpreting results and understanding their implications.

SCMN 8900 DIRECTED STUDIES (3) IND. SU. Departmental approval. This course is a self-learning course designed to enhance the student's knowledge of a selected topic. The course will be designed individually for each student with agreement between the student and the professor. Coursework may include traditional exams, readings, papers, or more specific projects and tasks depending on the material and the goal of the student. Course may be repeated for a maximum of 9 credit hours.

SCMN 8990 RESEARCH AND DISSERTATION (1-10) DSR. Must be degree seeking PhD student in the Business with concentration in the Supply Chain Management program.