

SUPPLY CHAIN MANAGEMENT (SCM)

SCM1001 INTRODUCTION TO TRANSPORTATION & LOGISTICS (3.00 Credits)

In this introductory course, students learn the importance of transportation and logistics to the economy in relation to functional areas in supply chain management, and financial performance of business in different industry segments. In this certification track course, students learn about the characteristics of the different modes of freight transportation, relative to capacity, energy efficiency, environmental impact, speed, sustainability, and safety.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM1020 MANUFACTURING AND SERVICE OPERATIONS (3.00 Credits)

This course teaches the operations function as a function that takes inputs and transforms them to outputs which meet customer requirements. Manufacturing outputs may take the form of materials, components, parts, or finished products. Service operations come in a wide variety of situations such as: repair operations, equipment set up operations, or event management services. The importance of managing operations processes is also introduced. The types of decisions that are made to ensure the design of effective and efficient operating processes is reviewed.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM1161 SUPPLY CHAIN MANAGEMENT (3.00 Credits)

This course presents an integrated approach to the effective application of management activities involved in the sourcing and movement of manufacturing material and finished goods across the different stages of the value chain. This certificate track course focuses on what employees and managers must do to ensure an effective supply chain exists in their organization. Students will explore broad-based concepts of Supply Chain Management practices and learn about functions such as: warehousing, inventory, procurement, sourcing, demand planning, transportation, operations, and customer service. which are concepts covered more in-depth in other courses in the program.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM2060 CUSTOMER SERVICE/CUSTOMER RELATIONSHIP MANAGEMENT (3.00 Credits)

This course will enable students to understand Customer Relationship Management (CRM) and Customer Service Operations (CSO) as it refers to practices, strategies and technologies that companies use to manage and analyze customer interactions and data throughout the customer lifecycle, with the goal of improving business relationships with customers, assisting in customer retention and driving sales growth. CRM and CSO key performance elements include compiling information on customers across different channels, points of contact between the customer and the company, which could include the company's website, telephone, live chat, direct mail, marketing materials and social media. CRM and CSO systems provide customer service staff detailed information on customers' personal information, purchase history, buying preferences and concerns. Additionally, this course incorporates oral communications as it relates to CSO.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM2150 INTRODUCTION TO PROCUREMENT (3.00 Credits)

This certification track course presents current concepts in the critical area of procurement for supply chain managers. Students gain insight and knowledge into the strategies, processes, and practices of procurement, including demands placed on procurement managers, the ethical, contractual and legal issues faced by procurement professionals, and the impact of procurement and supply chain management on the competitive success and profitability of the organization.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM2151 DEMAND PLANNING (3.00 Credits)

The effective anticipation, planning, and management of customer demand are key factors in the success of any organization. Companies strive to provide improved customer service levels at reduced costs, with planning and managing demand being two key components. This certification track is intended to train students in the basics of demand planning so they can quickly familiarize themselves with and become effective contributors to the demand planning processes that are part of SCM. Key elements of this course include aspects of demand planning, interaction between demand and order management, demand planning principles, demand planning tools and techniques, communication and management of demand, and contemporary approaches to demand planning.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM2221 WAREHOUSE OPERATIONS (3.00 Credits)

This course enables students to understand the various functions involved in the operation of a warehouse. This certificate track course includes: the role of warehousing in the supply chain, storage and handling techniques performance metrics, inventory management, customer service considerations, and safety concerns across various types of distribution facilities.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM2360 SIX SIGMA YELLOW BELT BODY OF KNOWLEDGE (3.00 Credits)

The units in this body of knowledge include learning objectives in the form of specific learning outcomes and the cognitive level at which test questions will be written. This information will provide guidance for the candidate preparing to take the exam. The specific learning outcomes are not intended to limit the subject matter or be all-inclusive of what might be covered in an exam. It is meant to clarify the type of content to be included in the exam. Although the intent of this is to prepare a candidate to take the Six-Sigma Yellow Belt certification, the content is, none-the-less, significantly valuable to any supply chain management curriculum. The descriptor in parentheses at the end of each entry refers to the maximum cognitive level at which the topic will be tested.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM3110 SUPPLY CHAIN MANAGEMENT II (3.00 Credits)

This course is an overview of logistics' functions within a firm and in the context of integrated vertical systems. Topics include customer service, information flow inventory control, materials management, order processing, packaging, and physical distribution.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: SCM1001 (minimum grade: C) and SCM1161 (minimum grade: C) and STA2023 (minimum grade: C)

SCM3141 PROCUREMENT MANAGEMENT (3.00 Credits)

This course presents current and thorough coverage in the critical area of procurement for logistics managers. Students gain insight and knowledge into the strategies, processes, and practices of procurement, including demands placed on procurement managers, the ethical, contractual and legal issues faced by procurement professionals, and the impact of procurement and supply chain management on the competitive success and profitability of the organization.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: SCM3110 (minimum grade: C) and STA2023 (minimum grade: C)

SCM3162 SUPPLY CHAIN QUALITY MANAGEMENT (3.00 Credits)

This course focuses on quality enhancement methodologies within the supply chain. Students will learn how to assess the current position of a firm and identify an effective strategy for improvement based on a profound understanding of the company, market, processes, and customers.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: SCM3110 (minimum grade: C) and STA2023 (minimum grade: C)

SCM3315 SIX SIGMA GREEN BELT (3.00 Credits)

This course is to prepare a candidate for the Six-Sigma Green Belt certification. The content is significantly valuable to any supply chain management curriculum. The descriptor in parentheses at the end of each entry refers to the maximum cognitive level at which the topic will be tested. The units include learning object objectives in the form of specific learning outcomes and the cognitive level at which test which test questions will be written. The specific learning outcomes are not intended to limit the subject matter or be all-inclusive of what might be covered in an exam.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: STA2023 (minimum grade: C)

SCM3930 SEMINAR/SPECIAL TOPICS (3.00 Credits)

This course focuses on current and emerging issues in supply chain management. Its format and topic will vary, but will include a full day or a half day seminar conducted by one or more industry experts who will address specific supply chain management topics such as customer service, logistics information systems, inventory management, material management, warehousing, purchasing and inventory, e-commerce, global trade, order processing, physical distribution, transportation, import-export compliance, or other supply chain management issues. Specific requirements will vary based on topic assignments.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM4105 SUPPLY CHAIN MODELING (3.00 Credits)

This course will enable students to create quantitative models in Microsoft Excel, as supporting tools in decision-making. The course will follow the case study method, exposing students to business situations typically encountered by Supply Chain Management professionals. Students will learn how to select the applicable tool to address the situation described in every case, create the corresponding quantitative model, write objective recommendation derived from the analysis, and present these in a simulated boardroom meeting environment. The course will cover Decision Analysis, Linear Regression Modeling, Forecasting Methods, Optimization Modeling, and Monte Carlo Simulation.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: CGS1510C (minimum grade: C) and SCM1161 (minimum grade: C) and STA2023 (minimum grade: C)

SCM4120 GLOBAL LOGISTICS/IMPORT & EXPORT (3.00 Credits)

This course encompasses logistics activities of multinational firms, international transportation systems, global sourcing, customer service, facility location, inventory management, customs issues, export-import activities, and the role of governments.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: SCM3110 (minimum grade: C)

SCM4134 INTERNATIONAL LAW & SUPPLY CHAIN MANAGEMENT (3.00 Credits)

Students will be exposed to the legal implications of transacting business across national borders. The focus will be on transactional international business law as applied to supply chain management. Topics will include the legal and ethical environment of international business, international contracting, importing-exporting trade finance, employment and labor in the global marketplace, manufacturing workplace conditions overseas, transnational sharp anti-trust activities to avoid, and international intellectual property law and licensing. The student will gain an appreciation of the special risks of conducting business internationally and the legal pitfalls associated with those risks that confront supply chain managers on a daily basis.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: BUL3130 (minimum grade: C) and SCM3110 (minimum grade: C)

SCM4191 SUPPLY CHAIN MANAGEMENT CAPSTONE (3.00 Credits)

This course is intended to help students acquire skills in applying research principles and obtaining practice in rigorous data collection and reporting.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

SCM4250 HEALTH CARE & SUPPLY CHAIN MANAGEMENT (3.00 Credits)

In this course, students will focus on current management methodologies within the health care supply chain. This supply chain ensures that the technology of care is available to the physician, surgeon, nurse, clinician, or caregiver at the right time, at the right place, and in sufficient quantity and quality for superior health outcomes for patients within the healthcare system. Students will learn how to assess the current position of a firm and identify an effective strategy for healthcare supply chain improvement based on a profound understanding of the company, market, processes, and customers.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Prerequisite: SCM3110 (minimum grade: C)

SCM4330 APPLIED PRODUCTION/OPERATIONS MANAGEMENT (3.00 Credits)

This course provides management and analytical concepts/tools for the management of operations and the decision-making process within the scope of the supply chain. Recently, operations strategy has provided companies with a competitive advantage in supply chains and transportation. Decision-making regarding operational issues is one of the most common tasks within organizations. This course will enable the student to perform the quantitative analysis necessary and understand the management issues in order to make good operational decisions within the supply chain.

Total Contact Hrs: 48.00

Lecture Hrs: 48.00

Complete all the courses in the following option:

- Option 1 - Prerequisite: SCM3110 (minimum grade: C) and STA2023 (minimum grade: C)

SCM4810 SUPPLY CHAIN MANAGEMENT INTERNSHIP/PRACTICUM (3.00 Credits)

This course is a practical application in a clinical setting of knowledge acquired in the classroom.

Total Contact Hrs: 144.00

Other Hrs: 144.00