

SUPPLY CHAIN MANAGEMENT (SCM)

SCM 325 Forecasting & Logistics 3 sem. hrs.

This course provides a broad overview of the planning and execution of customer demand. It is divided into two parts: forecasting and logistics. In the first half, we cover forecasting. Matching supply and demand requires planning. You will master different forecasting techniques essential for building a sales and operations plan. At the completion of this course, you will have the tools and techniques to analyze demand data, construct different forecasting techniques, and choose the most suitable one for projecting future demand. In the second half, we cover the three major building blocks of logistics networks: transportation, warehousing, and inventory. After completing this course, you will be able to differentiate the advantages and disadvantages of different modes of transportation. You will understand what goes into designing and setting up a warehousing facility. Finally, you will be able to develop logistics networks that minimize costs and deliver top customer service.

SCM 335 Sourcing and Operations 3 sem. hrs.

This course provides an overview of sourcing and operations. It is divided into two parts. In the first part, students will learn the key components of sourcing: supplier selection, supplier segmentation, make vs buy decisions and supplier relationships. In the second part, students will learn both the Lean Inventory methodology and the Six Sigma methodology. This will allow them to improve supply chain operations. Students will have the opportunity to apply this knowledge to a product of their choosing. Lastly the course will be supplemented by guest lecturers who have significant experience in supply chain management.

SCM 407 Capstone 3 sem. hrs.

This course encapsulates all the skills that students have learned in Supply Chain Management I and II, and asks students to apply these skills toward solving full scale supply chain challenges. It consists of two parts: In the first part, students will use their knowledge in supply chain management to solve the challenges faced by a fictional company called Medical Technologies Corporation. In the second part, students will be tasked with addressing a real supply chain problem and will work in groups to produce a solution which will consist of a report and a presentation. In this capstone project, students will take on the role of supply chain consultants, redesigning the existing supply chain of a consumer products company with the goals of implementing lean inventory management, and using six sigma processes to improve efficiency and allow the company to bring new products to market more rapidly.

Prerequisites: SCM 325 and SCM 335.