

# SUPPLY CHAIN MGMT & LOGISTICS (SCML)

## Supply Chain Mgmt Logistics (SCML) 150

### Intro To Transportation Administration

This course covers transportation practices and strategies for the 21st century. Provides an overview of basic principles and processes for transportation related functions in both the public and private sectors; covers state and federal regulations; provides a historical look at transportation in the U.S. and the impact it has on the economy; characteristics of different modes of transportation will be discussed. The role and importance of transportation in the economy and its relationship to the supply chain will be covered in detail. Transportation modes - trucks, rail, air, and water - will be examined for both domestic and global transportation. Review support functions for transportation management. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

## Supply Chain Mgmt Logistics (SCML) 151

### Central Store: Applied Logistics

This course allows students to perform entry-level job functions in "The Central Store," which is a live logistics operation. In this course, students work in the Central Store under supervision, allowing them an opportunity to gain the skills needed to demonstrate preparedness for full time employment in a logistics environment. Additionally, students will apply critical thinking and business communications skills. Writing assignments, as appropriate to the discipline, are part of the course.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

2 Laboratory hours. 4 Lecture hours. 6 Credit Hours.

**Offered At:** OH

**Repeatable:** Yes, up to 4 times

## Supply Chain Mgmt Logistics (SCML) 152

### Intro To Business Logistics

An introduction to the interrelated activities involved with the inbound, in process and outbound movement and storage of goods as well as the related information from the manufacturer to the consumer. There will be a special emphasis placed on how the functional areas of logistics such as customer service, transportation, inventory control, warehousing and packaging impact supply channel decision-making. Introduction and analysis of the logistics concept to include a brief history of logistics, the management of transportation, inventory, packaging, warehousing, materials handling, order processing, facility location and customer service. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

## Supply Chain Mgmt Logistics (SCML) 154

### Customer Service Operations

An introduction to customer service operations and to the key elements of customer service that are necessary to ensure high levels of customer satisfaction. Key elements include: the customer order process, reverse logistics, characteristics of good customer service, customer relationship management (CRM), customer life cycle (CLC), service performance metrics, supplier management inventory, order management, delivery and tracking and approaches to addressing challenging customer situations that inhibit satisfaction. Covers the fundamentals of finish goods movements from the point of production to the receipt by the customer; includes transportation, warehousing, inventory deployment and physical distribution. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

## Supply Chain Mgmt Logistics (SCML) 155

### Warehouse Management

Overview of warehouse equipment, procedures, facility layout, the role of the warehouse and logistic and business. This course will enable students to understand the various functions involved in the operation of a warehouse. Key elements include: the role of warehousing in the supply chain, storage and handling techniques, performance metrics, customer service considerations, and safety concerns across various types of distribution facilities. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

## Supply Chain Mgmt Logistics (SCML) 158

### Purchasing

An introduction to purchasing roles and functions. Functions include: strategic sourcing, purchasing operations, supply chain management, project management, credit, receiving, delivery tracking, supplier selection and administration, qualification of new suppliers, preparing purchase orders, negotiating price and delivery, strategic customer/vendor relationships, and resolution of problems. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

## Supply Chain Mgmt Logistics (SCML) 159

### Inventory Management

Fundamental principles of inventory control; inventory classifications – raw materials, work-in-process, finished goods and maintenance, repair and operations inventory. Using Pareto analysis (80/20 rule) and ABC classifications; importance of inventory record accuracy; inventory turnover and other inventory measurements; principles of Enterprise Resource Planning (ERP), Material Requirements Planning (MRP) and Manufacturing Resource Planning (MRP II); inventory control systems; internal and external lead time and cumulative lead time; excess and obsolete inventory; role of inventory control in the logistics process and organization; physical inventories and cycle counting; and scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

### **Supply Chain Mgmt Logistics (SCML) 160**

#### **Operations Management**

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. Writing assignments, as appropriate to the discipline, are part of the course.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

### **Supply Chain Mgmt Logistics (SCML) 180**

#### **E-Commerce/E-Procurement**

The purpose of this course is to provide the student with an understanding of the role of electronic commerce (e-commerce), electronic procurement (e-procurement), and their impact on supply chain management decision-making. This course is designed to provide the student with a historical perspective of the evolution of e-commerce, e-procurement and how they have affected the supply chain. Topics include a history of e-commerce, business to business (B2B) models, business to consumer (B2C) models, consumer to consumer (C2C) models as well as the role of Internet technologies in e-commerce. How the Internet has changed warehousing and transportation strategies and the way we conduct business in the supply chain. Writing assignments, as appropriate to the discipline, are part of the course.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

### **Supply Chain Mgmt Logistics (SCML) 181**

#### **Demand Planning & Forecasting**

Provides an introduction to customer demand forecasting, planning and studies the critical concept of closely balancing supply and demand using both quantitative and qualitative forecasting techniques. Topics covered include sales and operations planning (S&OP), market and business intelligence, demand shaping, trends, cycles, mitigating risk, collaborative planning, forecasting and replenishment (CPFR) processes, independent and dependent demand. Writing assignments, as appropriate to the discipline, are part of the course.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

### **Supply Chain Mgmt Logistics (SCML) 182**

#### **Global Logistics**

Provides a study of the supply chain management and logistics function related to the global environment including import/export, customs clearance, international legal considerations, global sourcing, financing, import duties and letters of credit. This course is designed to survey the impact of the emerging global market place on today's business environment. In particular, this course will integrate the concepts, theories, and evolving practices of global supply chains with today's marketplace. Topics include international terms of sale, impact of e-commerce on global strategies, international transportation carriers, documentation issues, global third-party providers, global sourcing, legal and ethical considerations.

*Eligibility for ENGLISH 101 based on prior coursework or appropriate score on Placement Test; or Consent of Department Chair*

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH

### **Supply Chain Mgmt Logistics (SCML) 210**

#### **Inventory Control**

Fundamental principles of inventory control. Inventory classification - raw materials, work-in-process, and finished goods. Using the 80/20 rule and ABC classifications. Importance of inventory record accuracy. Inventory turnover and other inventory measurements. Principles of Material Requirements Planning and MRP II. Inventory control systems. Internal and external lead time and cumulative lead time. Excess and obsolete inventory. Role of inventory control in the logistics process and organization. Physical inventories and cycle counting. Scheduling techniques. Writing assignments, as appropriate to the discipline, are part of the course.

3 Lecture hours. 3 Credit Hours.

**Offered At:** OH