

## Delgado Logistics: Gateway to Careers

This program and these online courses are designed for these student groups:

- For students with no logistics experience
- For students working in the logistics industry seeking continuing education for career advancement
- For military transitioning to civilian employment and those serving in the national guard and armed forces reserve units
- For dual enrollment high school students considering career options

## Delgado Logistics Course Objectives

The following are the learning objectives for the courses offered by the Delgado Community College Logistics program. All courses are delivered online.

### MANG 206 Introduction to Logistics

- Logistics management: an overview
- Logistics environments
- Supply chain management
- Global logistics
- Logistics information systems
- Inventory in the logistics system
- Inventory decision making
- The transportation system
- Transportation management
- Warehousing decisions
- Material handling and packaging
- Facility location
- Logistics quality
- Organization of the logistics function
- Logistics strategy

### MANG 208 Transportation Management

- Understand basic terminology and transport operations in the context of today's business environment.

- Demonstrate the ability to critically analyze the effectiveness of transportation management and transport mode selection processes.
- Demonstrate the ability to recognize areas for improvement in transportation management operations.
- Demonstrate the ability to understand the cause and effect of each mode of transportation on the business operation.
- Understand physical and economic issues related to each of the different transportation modes.
- Understand the effect of transportation upon the entire supply chain.
- Understand the importance of strategic alliances and the impact of centralized versus decentralized networks.
- Understand basic international issues involved in transportation. Research, document, and prepare written case studies in support of logistics activities and related regulatory compliance issues.

### **MANG 220 Operations Management**

- Discuss operations and operations management as a competitive advantage for the organization.
- Compare and contrast difference sourcing strategies including outsourcing and insourcing.
- Discuss the influences of the global competitive environment on operations management.
- Discuss the role of operations management in corporate social responsibility and sustainability.
- Describe the goals and stages of project management.
- Describe the major approaches to sales and operations planning.
- Discuss the total cost of quality and compare the common methods of managing quality.
- Apply basic statistical process control (SPC) methods.
- Describe the major approaches to sales and operations planning.
- Explain options for managing bottlenecks and managing capacity in service and manufacturing processes.
- Discuss factors affecting location decision and describe common methods for location selection.
- Describe the main types of operations processes and layouts in manufacturing and in services
- Understand the importance of supply chain management with respect to effective and efficient human resources.
- Compare common approaches to supply chain design.
- Discuss options for measuring supply chain performance.

- Compare the advantages and disadvantages of common inventory systems.
- Describe the stages of short-term and long-term scheduling
- Apply the process of material requirements planning (MRP)
- Describe the advantages and disadvantages of various production strategies such as lean.

### **MANG 229 Supply Chain Management**

- Discuss the development of supply chain management in leading organizations and understand its contributions to their financial viability.
- Recognize how logistics affects customer service, corporate performance, and competitive advantage.
- Understand the impact of logistics on the economy and how efficient and effective logistics management contributes to the vitality of the economy.
- Understand the complexity of a global supply chain network and what questions need to be addressed for the global supply chain to be competitive.
- Understand the scope and importance of supply chain performance measurement.

### **MANG 230 Warehouse and Inventory Management**

- Explain warehousing, material management, logistics and supply chain terms.
- Demonstrate understanding of warehouse operations.
- Solve warehouse layout and operations issues facing industry today.
- Explain the total supply chain management and function in distribution.
- Explain and understand the interaction of warehousing and materials management.
- Identify key benchmark areas for warehouse operations.
- Recognize the issues facing the warehousing industry in the past, current and future.
- Explain, understand and identify key issues in warehouse and materials management within the supply chain.
- Students will identify the key areas of warehouse operations.
- The primary function is to give the students a clear understanding of the vast warehouse industry, as well as past, current and future expectations.

### **MANG 265 Manufacturing Logistics**

- a. Operations and Productivity
- b. Operations Strategy for Competitive Advantage
- c. Operations in a Global Environment
- d. Forecasting

- e. Design of Goods and Services
- f. Managing Quality
- g. Process Strategy and Capacity Planning
- h. Location Strategies
- i. Selection and Placement
- j. Human Resources and Job Design; Supplement 10: Work Measurement
- k. Supply-Chain Management; Supplement 11: E-commerce and Operations Management
- l. Inventory Management; Supplement 12: Just-In-Time Systems
- m. Aggregate Planning
- n. Material Requirements Planning (MRP)
- o. Short-Term Scheduling
- p. Project Management
- q. Maintenance and Reliability