LOGS333: Warehouse Design and Management  
This course is designed to help students to understand warehouse functions, processes, organization and operations. It includes analysis of warehouse location, operation, management, controls, procedures, finance, security, cargo/materials handling, and productivity. Be the completion of this course students should be able to:

- Analyze issues involved in locating warehouses.
- Examine warehouse operating and service procedures.
- Assess financial analysis of warehouse operations.
- Discuss warehouse security issues.
- Analyze warehouse handling systems.
- Assess warehouse utilization metrics and productivity improvement methods.
- Organize warehouse space, equipment, and personnel for maximum efficiency and customer satisfaction.
- Develop a Warehouse Information System Plan to manage and control receiving, storage, picking, and shipping operations as well as losses.
- Select the best combination of materials-handling and storage equipment.

Course Descriptions

LOGS335: Inventory Management  
This course aims to introduce the students to the fundamental nature of inventory from a financial, physical, forecasting, and operational standpoint. The ultimate goal of this course is to present immediately usable information in the areas of forecasting, physical control and layout, and problem recognition and resolution. The course materials should enable students to:

- Understand that modern practice discourages holding large quantities of inventory.
- Grasp the significance of controlling actual, on-hand inventory as both a physical object (shelf count) and as an intangible object (record count and monetary worth).
- Understand the fundamental differences between finished goods inventories in the retail/distribution sectors and raw materials and work-in-process inventories found in the manufacturing environment.
- Understand basic formulas to calculate inventory quantities.
- Employ basic problem-solving techniques toward issue resolution.

LOGS455: Shipping and Retail Logistics  
This course aims to enhance students' knowledge of shipping management and operations and the implication of the extended meaning of 'shipping' that has become more complex, as well as more dynamic. This course will explain how the shipping market functions, examining the strategic and operational issues that affect entrepreneurs in this industry. The course will also discuss global trends and strategies in the shipping business, looking at the role of logistics service providers and at how the use of information technology can help shipping operations. Also, this course discusses retail Management and takes an in-depth look at marketing and
Management issues involved in retail business. Beginning with an emphasis on relationship building and consumer behavior, this course focuses on the specific elements of retailing strategy: planning the store location; managing a retail business; planning, handling, and pricing merchandise; communicating with the customer; and integrating and analyzing a retailing strategy. The course aims to enhance students' knowledge about:
- The shipping markets.
- Freight rates determination.
- Shipping cost structures.
- The patterns of sea transport.
- How companies in the shipping industry operate.
- To become effective retail planners and decision-makers
- Developing and applying a retail strategy
- Learn about the mission, goals, consumer market, overall and specific activities, and control mechanisms that are involved in a successful strategy.

**LOGS461: Reverse and Green Logistics**  
**3 CR**

The focus of this course is on the reverse and green logistics planning and its environmental impact. It introduces students to the basic concepts of reverse and green logistics practices, discusses the role of regulations concerning product take back policies, life cycle assessment, and international environmental standard such as ISO 14000, and explores the impact of legislations and policies on logistics practices and reverse logistics network design. Closed-Loop Supply Chains (CLSC) may offer companies a unique opportunity to improve their profits on the one hand and to serve societal responsibility on the other hand. The management of CLSC differs in a number of ways from managing supply chains in general. The specific objectives of the course include:
- To develop an understanding of the concepts, and principles that underlie reverse and green logistics, especially with regard to the management of recycling and closed-loop-manufacturing, and logistics systems.
- Be aware of the impact of logistics and supply chain on environment and appreciate the importance of reverse and green logistics and environmental issues in logistics and supply chain from the strategic perspective.
- To gain an understanding in performance measures necessary to capture reverse and green logistics practices.
- To gain a sound knowledge in environmental assessment methods and tools and international environmental standards.

**LOGS481: International Logistics**  
**3 CR**

This course helps students to understand the purpose, scope and role of logistics in support of international trade. Students will also be familiar with the various functions which together make up the global supply chain and how the supply chain may be used in a strategic way to provide international competitiveness. Upon successful completion of this course, the student should be able to:
- Define logistics and supply chain management in an international context.
- Understand the role of logistics/supply chain in supporting international marketing activities.
- Understand the concept and practice of intermodalism and its impact on trade.
- Understand the impact of logistics/supply chain activities on international business strategies.
- Understand the role of insurance coverage in the international movement of goods.
- Understand the critical issues to be included in a contract for logistics services.
- Negotiate service contract issues.

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<th>LOGS471: Import and Export Management</th>
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<td>This course gives attention to the knowledge, skills and insight needed to manage imports and exports either in a comprehensive trading company or in a department of a company that depends on sourcing or exporting to achieve its strategic objectives. This course covers the major facets of the import-export transactions and procedures required to do business overseas successfully. The focus is on practical applications, ranging from understanding the objectives of parties involved in importing and exporting to basics of letters of credit, packaging, and transporting shipments. The course discusses cross-cultural differences, role of banks and freight forwarders; foreign currency management; and documents used in international trade.</td>
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<td>• Students will gain an understanding of the guiding principles of import-export management.</td>
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<td>• Students will have learned how to effectively research, write, and present as a team a business proposal for an import/export product or service.</td>
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<td>• Students will learn how to analyze geographic regions to identify potential locations to establish an import-export business enterprise.</td>
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<td>• Students will gain an understanding of the technical and legal aspects of working in an import-export business/industry environment</td>
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<th>LOGS 101: Introduction to Logistics</th>
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<td>This module sets out to provide an understanding of how logistics could fit in an organization. It defines the concept supply chain and how it relates to logistics. The relation between marketing and logistics will also be considered. It provides an introduction to a wide range of logistics activities such as materials handling, purchasing, storage, inventory and forecasting, transport systems and distribution systems. It also provides an understanding of the role of information technology in improving the efficiency of logistics operations. An overview of some contemporary topic in logistics such as third-party logistics providers reverse logistics will be provided.</td>
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<th>LOGS 432: Supply Chain Management</th>
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<td>Supply Chain Management extends the study of logistics beyond the boundaries of a single organization, and places particular emphasis on the interfaces between the 'chain' or 'network' of enterprises engaged in moving products, services, and information, from suppliers through intermediaries to end users/ consumers. The course focuses on developing a supply chain strategy, something which many organizations still do not have in place even today. Channel relationships between processors, manufacturers, and distributors will also be reviewed, particularly as leading organizations are now openly embracing more collaborative behavior for mutual benefit. Main course learning objectives include:</td>
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<td>• To develop an understanding of key drivers of supply chain performance and</td>
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their inter-relationships with strategy and other functions of the company such as marketing, manufacturing and accounting.

- To impart analytical and problem solving skills necessary to develop solutions for a variety of supply chain management and design problems and develop an understanding for use of information technology in supply chain optimization.
- To understand the complexity of inter-firm and intra-firm coordination in implementing programs such as e-collaboration, quick response, jointly managed inventories and strategic alliances.
- To develop the ability to design logistics systems and formulate integrated supply chain strategy, so that all components are not only internally synchronized but also tuned to fit corporate strategy, competitive realities and market needs.
- To understand which information should be exchanged in a supply chain and how it should be used to benefit the entire supply chain.
- To identify improvement opportunities that exist within supply chains in different industries and to quantify the improvements that various supply chain strategies offer. To understand which barriers companies face during the implementation of new supply chain strategies.

LOGS 332: Operations Management 3 CR

This course is designed to introduce the students to the concepts, principles and practices in the field of operations management and its relationships with other functions in an organization. In addition, this course attempts to provide techniques required for the effective management of operations in both service and manufacturing organizations. Students will have substantial benefit from understanding the role of operations management in organizations. By studying this course, students should be able to:

- Define operations management, its heritage, the exciting role it plays in different types of organizations, and describe the careers opportunities in operations management.
- Identify the ten decisions of operation management.
- Describe some specific approaches used by operation manager to implement the strategies of differentiation, low cost, and response.
- Identify the core concepts in designing goods and services and understand the strategic decision making in the area of goods and services design.
- Define process strategies and describe the process analysis, service design, green manufacturing, and production technology.
- Define capacity and describe how to design capacity and measure its effectiveness.
- Identify the objectives of location strategy, and identify the international location issues, clustering, and the geographic information systems.
- Identify the concepts related to the layout strategy.

LOGS340: Transportation Management and Technology 3 CR

The course is prepared to introduce the student into the major issues in the management of transportation. The course will examines the background and
history of transportation, emphasizing the fundamental role and importance the industry plays in companies, society, and the environment in which transportation service is provided. The course will also provide an overview of carrier operations, management, technology, and the strategic principles for the successful management of different modes of transportation. By the completion of this course, students should be able to:

- Demonstrate the importance of transportation to the firm, to the supply chain, and to the economy.
- Discuss the characteristics, advantages, and disadvantages of motor carriers, railroads, air carriers, water carriers, and pipelines.
- Explain the different types of intermodal and special carriers.
- Understand methods and strategies used by carriers and shipper. Develop knowledge about the international trade terms and the role of transportation in the global marketplace.

LOG 451: Purchasing & Procurement 3 CR

The primary aim of this course is to get students acquainted with the fundamental concepts, models and instruments in procurement management. Key areas like buying supplies, inbound logistics, contracts, and interfaces with stock and inventory control will be covered. In this course, students will follow the procurement or purchasing cycle from its inception through bid solicitation, proposal receipt, evaluation, negotiation, and contract. Students will also learn how to develop and implement a successful purchasing strategy, select the best suppliers, and employ effective negotiating techniques. Students have to understand that the responsibilities for purchasing today extend far beyond the purchase order and can require financial, manufacturing, engineering, or quality expertise.

By studying this course students must be able to:

- Make the necessary settings for consumption-based planning.
- Use special functions of purchasing.
- Operate with the functions of logistics invoice verification.
- Perform all basic purchasing functions.
- Establish an effective purchasing system.
- Identify the best suppliers.
- Reduce costs for the company.
- Understand interfaces with other activities.
- Identify how purchasing impacts company profitability.