



## COURSE OUTLINE: SCM104 - LOG OPER METH & SYS

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Approved: Sherri Smith, Chair, Natural Environment, Business, Design and Culinary

<b>Course Code: Title</b>	SCM104: LOGISTICS OPERATING METHODS AND SYSTEMS
<b>Program Number: Name</b>	2180: SUPPLY CHAIN MANAGEM
<b>Department:</b>	BUSINESS/ACCOUNTING PROGRAMS
<b>Academic Year:</b>	2023-2024
<b>Course Description:</b>	This course evaluates the role of efficient logistics and transportation services, and the impact on corporate effectiveness. Topics include: risk management, security, customer service and order fulfillment, distribution operations, purchasing or operation of transportation services, third-party providers and custom documentation.
<b>Total Credits:</b>	3
<b>Hours/Week:</b>	3
<b>Total Hours:</b>	42
<b>Prerequisites:</b>	There are no pre-requisites for this course.
<b>Corequisites:</b>	There are no co-requisites for this course.
<b>Vocational Learning Outcomes (VLO's) addressed in this course:</b>	<b>2180 - SUPPLY CHAIN MANAGEM</b>
<b>Please refer to program web page for a complete listing of program outcomes where applicable.</b>	VLO 2 Determine the value added and financial implications of supply chain decisions and design on overall business profitability, efficiency and stakeholder satisfaction.
	VLO 3 Ensure supply chain activities and transactions are compliant with relevant legal, regulatory and contractual obligations, and industry and organization standards and policies for quality, health, safety, accountability, social and environmental responsibility.
	VLO 4 Use risk mitigation tools and strategies to inform supply chain management decisions.
	VLO 5 Contribute to the acquisition and sale of goods, services and materials in accordance with best practices and public and private sector stakeholder expectations across a variety of industries.
	VLO 6 Contribute to the strategic planning and scheduling of material requirements, resource allocation and inventory for efficient production and fulfillment of customer orders and returns.
	VLO 7 Coordinate the efficient handling and movement of goods, services, materials and related information within and between supply chains.
	<b>Essential Employability Skills (EES) addressed in this course:</b>
<b>Course Evaluation:</b>	Passing Grade: 50%, D



A minimum program GPA of 2.0 or higher where program specific standards exist is required for graduation.

**Other Course Evaluation & Assessment Requirements:**

Learning Activities: Lectures, required readings, seminars, case studies, papers, class discussion and problem-solving, podcasts, videos, content expert presentations

Assignments: All assignments are due on the applicable date at the beginning of class. Assignments are to be submitted via the Learning Management System (LMS).

Late Assignments: Late assignments will not be accepted. There are no make-up (additional) assignments and submission deadlines are adhered to in this course. If you have extenuating circumstances, please advise the Professor.

Missed Tests / Exams: There are no make-up (additional) opportunities for exams or missed tests / quizzes. If you have extenuating circumstances, please advise the Professor.

**Books and Required Resources:**

Transportation: A Global Supply Chain Perspective by Novack, Gibson, Suzuki and Coyle  
 Publisher: Cengage Learning Edition: 9th  
 ISBN: 9781337406642  
 or 9781337672306 Etext

**Course Outcomes and Learning Objectives:**

<b>Course Outcome 1</b>	<b>Learning Objectives for Course Outcome 1</b>
Discuss the role of efficient logistics and transportation services and the impact on corporate effectiveness.	1.1 Understand how transportation affects supply chain management, the price of goods, services and markets. 1.2 Explain transportation information requirements and understand the capabilities of transportation software. 1.3 Articulate the benefits of transportation management systems.
<b>Course Outcome 2</b>	<b>Learning Objectives for Course Outcome 2</b>
Ability to calculate the cost of various freight options and compare financial impact and price accordingly.	2.1 Understand the relationship between a rate and price. 2.2 Familiarity with various types of market structures found in the transportation industry. Understand the different forms of rates used. 2.3 Understand the impact of transportation prices on the relevant market area for a product. 2.4 Calculate the costs of both truckload and less-than-truckload freight moves.
<b>Course Outcome 3</b>	<b>Learning Objectives for Course Outcome 3</b>
Understand and mitigate risks involved in logistics.	3.1 Understand the nature of transportation risk and disruptions. 3.2 Describe the process for managing transportation risk and discuss techniques for managing transportation risk.
<b>Course Outcome 4</b>	<b>Learning Objectives for Course Outcome 4</b>
Understand the various freight options, terms involved, and flow of goods and paperwork.	4.1 Gain knowledge of the service characteristics of motor carriers. Understand the impact of fuel and labour on the motor carrier cost structure. 4.2 Discuss the relevance of intermodal and intramodal competition in the railroad industry.



4.3 Know the major types of commodities hauled by the railroads and discuss the nature of costs and how they impact pricing in the railroad industry.

4.3 Understand the operating and service characteristics of airline transportation, and appreciate the impacts of fuel and labour costs on airlines cost structures. Understand the concepts of economies of scale and density in the airline industry.

4.4 Discuss the various types of water carriers and their roles in the overall water carrier system.

4.5 Understand the concept of third party logistics and its role in the movement of goods. Summarize the process for outsourcing transportation and logistics activities.

4.6 Discuss the relationship between international trade and global transportation.

4.7 Understand the unique capabilities of ocean, air, and intermodal transportation in moving freight internationally.

4.8 Understand the need for accurate global freight documentation and visibility tools and articulate the customs clearance process for imports.

**Evaluation Process and Grading System:**

<b>Evaluation Type</b>	<b>Evaluation Weight</b>
Assignments	20%
Mid-term and Final Exam	30%
Participation	10%
Quizzes	40%

**Date:**

June 23, 2023

**Addendum:**

Please refer to the course outline addendum on the Learning Management System for further information.

