

DATA SCIENCES AND OPERATIONS

SPRING 2025

DSO 482 — *Supply Chain Management*

Section 16194

Professor

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Email

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When

Mon/Wed 2:00pm-3:30pm

Office

BRI 307E

Units

4.0



WHY TAKE THIS COURSE?

Students who enjoy **hands-on learning** will appreciate this course, as it includes **a real-world project**. Additionally, anyone pursuing a career in operations, supply chain management, marketing, or finance—whether in manufacturing, retail, distribution, management consulting, or internal consulting roles within large corporations—will find the concepts covered in this course highly valuable.

COURSE OBJECTIVES

This course includes a real-world project where you'll apply concepts learned in class. You'll develop an understanding of managing and improving supply chain processes, explore key metrics, and learn to navigate trade-offs in decision-making. By the end, you'll be equipped with tools to manage supply chains effectively and see how they drive sustainable growth and profitability in any business setting.

KEY CONCEPTS

- Supply Chain Strategy
- Logistics and Distribution Networks
- Sourcing and Procurement
- Global Supply Chain Operations
- Demand Forecasting
- Sales and Operations Planning
- Material Requirements Planning
- Reverse Supply Chains
- Sustainability
- Blockchains, IA, and IoT in Supply Chains

COURSE DESCRIPTION

This course offers a comprehensive introduction to supply chain management, covering key topics such as supply chain strategy, logistics, distribution networks, sourcing, procurement, and global operations. You'll learn how to forecast demand, plan sales and operations, manage materials, and navigate reverse supply chains, all with a focus on sustainability. The course also explores the impact of emerging technologies like blockchain, AI, and IoT on supply chains. Through real-world projects, you'll apply these concepts to develop practical skills for managing modern, efficient, and sustainable supply chains.