

FALL  
2025

DATA SCIENCES + OPERATIONS

# DSO 581

SUPPLY CHAIN MANAGEMENT

Section(s): 16329

Tue & Thu: 12:30 PM – 1:50 PM

Instructor: Alireza Kabirian

 [kabirian@marshall.usc.edu](mailto:kabirian@marshall.usc.edu)

Units: 3.0

Office: 307 E

## WHY TAKE THIS COURSE?



Anybody interested in consulting, marketing, operations, manufacturing, or entrepreneurship. Firms need a sound knowledge of how supply chains work, what are the key metrics, and what incentives must be provided for the systems to work well. And expertise in Supply Chain Management is becoming crucial if you aspire to leadership positions, regardless of career track.

## COURSE OBJECTIVES



Supply chains have been in the news a lot since the Covid-19 pandemic ... from shortage of PPE/toilet paper to the backup in the port of LA and recently tariffs and trade wars. We explore supply chain strategies, metrics, drivers and structures and review the primary tradeoffs in making supply chain decisions, and the basic tools for effective and efficient supply chain management, production planning and inventory control, order fulfillment and supply chain coordination..

## KEY CONCEPTS



- Inventory management
- Cycle and safety inventory
- Newsvendor model
- Distribution system design
- Supply chain coordination
- Logistics
- Forecasting
- Network design
- Aggregate planning
- Enterprise resources planning
- Just-in-time manufacturing
- Supplier management
- IT in supply chains
- Sustainability and supply chains

## Course Description



To provide students with an understanding of the intricacies of supply chains. To learn tools for management and improvement of supply chain processes and performance.



[SCHEDULE OF CLASSES](#)