# IEDA4410 Data Driven Supply Chain Management

# Fall 2023 Mon. 1:30 – 2:50pm, Fri. 9:00 – 10:20am Room G009B, CYT Bldg

#### **Instructor**

Xuan OIU

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Office hours: by appointment

## **Teaching Assistants**

Mr. ZHANG Qing

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## **Course Description**

With the advancement of information technology and globalization, competition is no longer restricted local participants but on the performance of the entire supply chain. The ability to capture, store, aggregate and analyze data and then extract intelligence is now rapidly becoming a mandate for virtually all organizations. This course offers an introduction to the basic concepts and philosophies of supply chain management including inventory management, risk pooling, bullwhip effect, smart pricing and supply chain coordination. Moreover, real world companies' cases are discussed to show how to leverage big data and analytics to extract new insights and gain competitive advantages from supply chains.

#### **Textbook**

David Simchi-Levi et al., Philip Kaminsky and Edith Simchi-Levi. Designing and Managing the Supply Chain: Concepts, Strategies, and Case Studies, , McGraw-Hill

### **Assessment and Grades**

Homework	5%
Class participation	15%
Project	15%
Mid-term exam	25%
Final Exam	40%

- No late homework is accepted. Please submit through canvas.
- Both midterm and final exams are closed book and closed notes

## **Course Outline**

The schedule is subject to change at the instructor's discretion. Students are advised to check the course website regularly for updated information.

	Topics	Readings
1	Introduction	
2	Inventory management	Chapter 2
3	Risk pooling strategies	Chapter 2
		Case 1: Sport Obermeyer (pp. 63-67)
4	Bullwhip effect controlling	Chapter 5
		Case 2: Barilla SpA(A) (pp. 143-152)
5	Outsourcing	Case 3: Zara: Fast Fashion
6	Postponement	Case 4: HP (pp. 331-337 & pp. 358-362)
		Case 5: Zara: An integrated store and
		online model
7	Smart pricing	Chapter 13
		Case 6: Allegiant Airline
8	Supply contracts and risk sharing	Chapter 4
9	Sharing Economy	Case 7: Uber
10	Supply Chain Design Strategies	Case 8: Apple Global Supply Chain