

IEDA 2410 Introduction to Modern Logistics

Summer 2025

Instructor: Professor Xiangtong Qi

Email: ieemqi@ust.hk, Office: 5594 (Lift 27/28)

2:00pm – 3:00pm

TA: To be determined

Website: canvas.ust.hk

Meeting time: Every Mon, Wed, and Friday, July 14 to 8 August

Material: (main material): Lecture Notes at Canvas

(for reference): *Introduction to Logistics Systems Management*, 2nd Edition, G. Ghiani, G. Laporte, and R. Musmanno, 2013, Wiley.

Description: Introduction to intermodalism, globalization, third-part logistics, carrier logistics, shipper logistics, manufacturing logistics, supply chain management, and rules, conventions and practices in various transportation modes. Discussion of characteristics, issues, and practices of air cargo systems, surface transportation systems, sea freight operations, and terminal operations.

Intended Learning Outcomes:

1. Name the key players and organizations in the freight logistics industry
2. Explain the roles of these players and their interrelationships
3. Describe the major operating structures and the associated costs of different freight transportation modes
4. Identify the key challenges and opportunities in the logistics industry
5. Communicate your ideas effectively through discussions, presentations and written documents

Assessment: Project 30%, Class Participation 10%, Quizzes 20%+20%+20%

Project: Group-based project. Details to be announced.

Participation including attendance and activity in classroom

Quiz: Dates to be announced. There is no final exam.

AI Policy:

Using Generative AI is allowed in the Project as long as the usage is clearly explained.

Tentative Schedule

Week 1

Lecture 1: Overview of logistics

Lecture 2: Air Transportation

Lecture 3: Optimization of transportation I

Week 2

Lecture 4: Optimization of transportation II

Lecture 5: Global maritime logistics I

Lecture 6: Global maritime logistics II

Week 3

Lecture 7: Warehouse

Lectures 8: Business models

Lecture 9: Supply chain management

Week 4

Lecture 10: Traffic flow analysis

Lecture 11: Logistics practice

Lecture 12: Presentation