

# IEDA 2410 Logistics and Freight Transportation Operations

Fall 2022

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Office Hours: Please refer to Canvas, course website

Website: <http://canvas.ust.hk>

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-party 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.

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: Homework 20%, Project 30%, Quizzes 15%+15%+20%

Homework: Late submission before solution released: penalty of 30% off

Late submission after solution released: no credit

Project: Group project.

Details to be announced.

Quiz: (Please refer to tentative schedule)

**Tentative Schedule**

Week 1: Overview

Weeks 2-3: Air Transportation

Weeks 3-4: Water Transportation

Weeks 5-6: Land Transportation

Weeks 7-8: Warehousing and Storage

Weeks 9-10: Third Party Logistics

Weeks 10-11: New Developments in Logistics

Weeks 11-12: Transportation Economics

Week 13: Project Presentations

**Quizzes:**

Quiz 1: September 30

Quiz 2: October 28

Quiz 3: Final Exam Period