SCM 302: Global Supply Chain Management

General Information:

Term: 2022 Summer Session **Instructor: Staff** **Language of Instruction: English** **Classroom: TBA** **Office Hours: TBA**
Class Sessions Per Week: 5 **Total Weeks: 5** **Total Class Sessions: 25** **Class Session Length (minutes): 145** **Credit Hours: 4**

Course Description:

In the increasingly connected global economy, the international supply chain management is of great significance. This course provides an comprehensive understanding to international supply chain management, aiming to improve students on analytic thinking and the ability to apply conceptual framework to solve real word supply chain management problems. All functional areas of international supply chain management are explored in an integrated view. The main topics cover: business process and management, demand forecasting; inventory management; transportation management, supply chain integration, quality management, project management, performance metrics and IT in supply chain management.

Learning outcome:

Upon successful completion, students are expected to have the knowledge and skills to:

1. To understand the core concept in international supply chain management

2. To understand the component and operation process of international supply chain management.

3. To analyse the supply chain strategies of firms;

4. To examine the levels of risk, efficiency, and sustainability of a supply chain;

5. To conduct supply chain management analysis under analytic software tool and models learning in class, such as conducting demand forecasting, purchasing planning, inventory planning, transportation network and routine design, warehousing management, performance metric, etc.

Course Format and Requirements:

Classes will start and end on time. The class is a combination of lecture, case study and class discussion, as well as the most 'lab session'. Regular attendance is expected. Late entry or reentry to a class session is allowed only under exceptional circumstances. All phones, laptops and other electronic devices should be turned off when lecturing.

Attentive participation and informed discussions are critical to the learning process; they make classes more interesting and enjoyable for all the students. Students are encouraged to volunteer substantive comments and questions freely.

Attendance:

Attendance is important, mandatory, and critical to the success of the class. It's understandable that sometimes personal issues come up and making class is sometimes difficult. Attendance will be taken every class. A student can miss up to 4 (FOUR) classes without any penalty for attendance points. The fifth absence will result in a loss of all attendance score (10% of the final score). University excused absences will be considered up until 24 hours after the class period has ended. Leaving the lecture early without permission is automatically an unexcused absence. Two late arrivals constitute an un-excused absence.

Course Materials:

1. **Textbook: Supply Chain Management: Strategy, Planning, and Operation** (7th Edition), by Sunil Chopra (Author) and Peter Meindl (Author);

2. In-class Handouts

3. Harvard Cases

Course Assignments:

Labs

There are 8 lab sessions in total. Students will make use of Excel (latest version is better) or other similar analytical software to conduct their lab topics and exercises under the instructor's instruction. This lab session is designed to help enhance your understanding about course materials and it would be definitely helpful to improve your performance in exams. After the completion of each lab, students shall finish and deliver the lab exercise, with illustration of graphs, analysis, results or possible solutions attached.

Quizzes

There will be 5 quizzes administrated through this semester, given during the first minutes of each class . Each quiz will be on the material covered that week. There will be NO make-ups for quizzes for any reason. All of the quizzes will be closed book.

Two Midterm Exams

The two midterm exams will be based on concepts and course materials covered in class and lab sessions. The midterm exams will be in-class, close-book and non-cumulative. Each midterm exam accounts for 20% of the final grade.

Final Exam

The final will be cumulative to allow you to demonstrate the breadth of knowledge you've acquired throughout the semester. The final exam will be close-book. The final exam is worth 30% of the total final score. Note that the final will not be taken during the normal class times. Exact time and location for final will be announced in the last week of sessions.

Course Assessment:

5 Quizzes	15%
8 Labs	15%
Midterm Exam 1	20%

Midterm Exam 2	20%
Final Exam	30%
Total	**100%**

Grading Scale (percentage):

A+: 98%-100%
A: 93%-97%
A-: 90%-92%
B+: 88%-89%
B: 83%-87%
B-: 80%-82%
C+: 78%-79%
C: 73%-77%
C-: 70%-72%
D+: 68%-69%
D: 63%-67%
D-: 60%-62%
F: Below 60%

Course Schedule:

Week	Topics	Activities
1.	Course syllabus + Course Overview; What is Global Supply Chain Management? Why Global SCM? Key issues and concepts in SCM; Complexities in Global SCM; Business Processes;	Quiz 1 Lab 1 & lab 2 Case study

	Effective Business Processes Management; Demand Forecasting: Demand Forecasting Strategy, Demand planning, Forecasting Metrics.	
2.	Purchasing and Purchasing Plan; Short term budget; Inventory Management: Total cost, total relevant cost Economic Order Quantity (EOQ); Facility locations and Decisions; Facility capacity Issue; Warehousing Management and Risk Control;	Quiz 2 Review Case study Lab 3 & lab 4
3.	Warehousing Management and Risk Control (Cont.); Transportation Management: Transportation Network Design Transportation Routine Choosing International Logistics and Risk Regional Difference in Global Logistics Outsourcing Strategies;	Quiz 3 Review Case study Lab 5 & Lab 6

4	Supply Chain Integration: Pull, push and Pull&push system Demand-Driven Strategies Impacts of lead time Impacts of the Internet on supply Chain Strategies Project management; Quality management;	Quiz 4 Review Case study Lab 7
5.	Performance metrics; International Supply Chain Risks and Challenges; Ethics and social Responsibilities in Global Supply Chain Management; International supply chain management and IT; Course summary	Quiz 5 Review Case study Lab 8 Final Exam

Lab Schedule:

Lab 1: lab policy, lab objective, lab method and software;

Lab 2: to make purchasing planning

Lab 3: to make inventory planning;

Lab 4: to make short term budget;

Lab 5: to make the most efficient and cost-saving warehousing decisions;

Lab 6: to make international logistics routine design;

Lab 7: to choose the most efficient supply chain integration strategy;

Lab 8: to apply most appropriate model of performance metrics in international supply chain management.

Academic Integrity:

Students are encouraged to study together, and to discuss lecture topics with one another, but all other work should be completed independently.

Students are expected to adhere to the standards of academic honesty and integrity that are described in the Huazhong University of Science and Technology's *Academic Conduct Code*. Any work suspected of violating the standards of the *Academic Conduct Code* will be reported to the Dean's Office. Penalties for violating the *Academic Conduct Code* may include dismissal from the program. All students have an individual responsibility to know and understand the provisions of the *Academic Conduct Code*.

Special Needs or Assistance:

Please contact the Administrative Office immediately if you have a learning disability, a medical issue, or any other type of problem that prevents professors from seeing you have learned the course material. Our goal is to help you learn, not to penalize you for issues which mask your learning.