



## SCM 312: Global Supply Chain Management

Term: 2021 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:

This course explores the supply chain management in a global context with emphasis on the management and improvement of global supply chain processes and performance. Students will learn how to develop and apply analytic tools, approaches, and techniques used in the operation of logistics systems and integrated global supply chains. The main topics discussed include: demand forecasting, planning, and management; inventory planning, management, and control; transportation planning, management, supply chain integration, performance metrics and other international supply chain issues.

### Course Materials:

#### **Optional Textbook:**

1. **Supply Chain Management: Strategy, Planning, and Operation** (7th Edition), by Sunil Chopra (Author) and Peter Meindl (Author);
2. **E-books: Supply Chain Building Blocks, Volume 1: Terms and Concepts**, Kindle Edition by Eddie Davila (Author)  
**E-books: Supply Chain Building Blocks, Volume 2: Terms and Concepts**, Kindle Edition by Eddie Davila (Author);



### 3. Harvard cases

#### Course Format and Requirements:

Class time will be used for a combination of lectures, case study and class discussions. As the quick pace of courses, for better understanding and to catch up with the progress of our instructor, students shall prepare and read relevant chapters before each class. Active participation in class discussion is vital important to your understanding of course content and helpful to your success in this course.

If you have any questions, welcome to put forward. Please remember the thoughtful questions would be praised and rewarded.

#### **Attendance:**

Attendance at lectures is vital to get a thorough understanding of the material, but I will not check-up on you by circulating an attendance roster. Good attendance will be rewarded, however, in that all quiz questions and most exam questions will be drawn from the lectures. Furthermore, only those who attend class can earn points for participation.

#### Grading Scale:

**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 Assignments:

**Quizzes:**

Throughout the semester, students will have 6 in-class quizzes. The formats include multiple choices, True/False or short answer questions. The lowest grade of the semester will be dropped.

**Exams:**

The two midterm exams and final exams will consist of objective questions in multiple choice, short answers, case study analytical questions and/or essays. All exams will be close-book.

**Labs:**

8 labs will be arranged. The Supply Chain Management labs mainly focus on the research field related to Supply Chain and Logistics Management with the application of Supply Chain Management Software and/or Excel. The instructor will design several lab exercises in advance and students are required to finish these exercises according to guideline before deadline. These labs aims to enhance students' understanding about course materials and develop students' ability to make use of what they have learnt in class in simulation practice.

**Course Assessment:**

Quizzes	15%
Midterm Exam 1	20%
Midterm Exam 2	20%
8 Labs	15%
Final Exam	30%
<b>Total</b>	<b>100%</b>

**Course Schedule:**

<b>Week</b>	<b>Topics</b>	<b>Activities</b>
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1	<p>Go through syllabus, course overview</p> <p>Introduction to Global Supply Chain Management</p> <p>Core supply chain concepts</p> <p>Demand forecasting: relationship between demand planning, forecasting and management process</p> <p>Strategic forecasting, capacity planning and investment strategy</p> <p>Tactical forecasts, sales plan, short term budgets, inventory planning and labor planning</p> <p>Forecasting metrics</p> <p>Time series analysis, Exponential Smoothing, Exponential Smoothing with Holt-Winter (Notation, formulas)</p>	Quiz 1
2	<p>Purchasing plan</p> <p>Facility location and decision</p> <p>Facility Capacity issue</p> <p>Inventory Management</p> <p>Reasons to hold inventory</p> <p>Inventory classification;</p> <p>Total cost, total relevant cost</p> <p>Economic Order Quantity (EOQ)</p> <p>Economic Order Quantity (EOQ) Extensions</p> <p>Economic Production Quantity (EPQ)</p> <p>Case study 1</p>	Quiz 2 Midterm Exam 1
3	<p>Warehousing:</p> <p>Warehousing basics, types and functions of warehouses</p>	Quiz 3 & Quiz 4



	<p>Core operational functions</p> <p>Common flow patterns of a warehouse</p> <p>Profiling &amp; Assessing Performance, segmentation analysis, measuring and Benchmarking</p> <p>Transportation Management</p> <p>Transportation network and routing design</p> <p>Lead Time Variability &amp; Mode Selection</p> <p>The impact of transportation on cycle, safety, and pipeline stock</p> <p>Case study 2</p>	
4	<p>Supply Chain Integration:</p> <p>Levels of supply chain Integration</p> <p>Pull system, Push system and Push &amp; Pull System</p> <p>Demand-Driven Strategies</p> <p>Internet's impacts on Supply Chain Management</p> <p>Efficient Distribution Strategies</p> <p>The Challenges of Supply Chain Integration</p> <p>International supply Chain issues:</p> <p>Risks and adventures of international supply chain</p> <p>Issues in international supply chain management</p> <p>Regional difference in logistics</p> <p>Socially responsible supply chain:</p> <p>Ethics</p> <p>Sustainability</p> <p>Community Interactions</p> <p>Case study 3</p>	<p>Quiz 5</p> <p>Midterm 2</p>
5	<p>Business Process:</p>	<p>Quiz 6</p> <p>Final exam</p>



	<p>Effective business process management Business plan, management and improve Project management Performance metrics: The importance of Performance Metrics in SCM Measurement Models Balanced scorecard Information technology in the supply chain management Course summary Review for final exam</p>	
<p><b>Lab Schedule:</b> The course has 8 lab sessions in total. Each session is 110 minutes in length</p> <p>Lab 1: To understand the process of demand forecasting, make use of relevant model and data to forecast demand of certain product.</p> <p>Lab 2: To understand the process of purchasing management, make purchasing plan, including purchasing manufacturer/retailer, purchasing quantity, purchasing price/cost, etc.</p> <p>Lab 3: To understand the process of inventory management, establish inventory policies for EOQ with planned backorders as well as single period models.</p> <p>Lab 4: To understand how to manage warehousing in an effective way, how to reduce the warehousing cost and improve efficiency in a safe way.</p> <p>Lab 5: To understand the importance of transportation management, how the variability of transportation transit time impacts inventory.</p> <p>Lab 6: To make international logistical decisions, choosing the most efficient and</p>		



cost-saving freight model for the shipment of goods.

Lab 7: To understand the Supply Chain Integration level in a company, to explore the best supply chain strategies.

Lab 8: To understand the importance and different model of Performance Metric in Global 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 Shanghai Normal University'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.