

**City University of Hong Kong
Course Syllabus**

**offered by Department of Management Sciences
with effect from Semester A 2024 /25**

Part I Course Overview

Course Title:	Supply Chain Management
Course Code:	MS6721
Course Duration:	One Semester
Credit Units:	3
Level:	P6
Medium of Instruction:	English
Medium of Assessment:	English
Prerequisites: <i>(Course Code and Title)</i>	Nil
Precursors: <i>(Course Code and Title)</i>	Nil
Equivalent Courses: <i>(Course Code and Title)</i>	MS6721A Supply Chain Management
Exclusive Courses: <i>(Course Code and Title)</i>	FB6721 Supply Chain Management

Part II Course Details

1. Abstract

This course provides a comprehensive overview of supply chain management, using the textbook "Supply Chain Management: Strategy, Planning, and Operation" as a foundation. Students will explore key concepts and strategies essential for effective supply chain management in various industries. The course begins with an introduction to supply chain management principles and progresses through critical topics such as supply chain drivers, inventory management, and risk pooling. Students will learn about push-pull strategies, the intricacies of supply contracts, and the complexities of transportation and distribution network design. Additionally, the course covers demand forecasting techniques and the bullwhip effect, emphasizing their impact on supply chain efficiency. By the end of the course, students will have a robust understanding of how to design, manage, and optimize supply chains to enhance operational performance and meet strategic business objectives.

2. Course Intended Learning Outcomes (CILOs)

(CILOs state what the student is expected to be able to do at the end of the course according to a given standard of performance.)

No.	CILOs	Weighting (if applicable)	Discovery-enriched curriculum related learning outcomes (please tick where appropriate)		
			A1	A2	A3
1.	Identify the scope of supply chain management and the major sources of challenges in supply chain management.	20%	✓		
2.	Align appropriate supply chain strategies with product characteristics to enhance efficiency and effectiveness.	30%		✓	✓
3.	Select and justify performance measures that meet both organizational and customer needs.	10%		✓	✓
4.	Utilize Information Technology and objective alignment theory to address and resolve supply chain coordination issues.	20%		✓	✓
5.	Develop operational strategies to effectively mitigate risks within the supply chain.	20%		✓	✓
		100%			

A1: Attitude

Develop an attitude of discovery/innovation/creativity, as demonstrated by students possessing a strong sense of curiosity, asking questions actively, challenging assumptions or engaging in inquiry together with teachers.

A2: Ability

Develop the ability/skill needed to discover/innovate/create, as demonstrated by students possessing critical thinking skills to assess ideas, acquiring research skills, synthesizing knowledge across disciplines or applying academic knowledge to real-life problems.

A3: Accomplishments

Demonstrate accomplishment of discovery/innovation/creativity through producing /constructing creative works/new artefacts, effective solutions to real-life problems or new processes.

3. Teaching and Learning Activities (LTAs)

(LTAs designed to facilitate students' achievement of the CILOs.)

LTA	Brief Description	CILO No.						Hours/week (if applicable)
		1	2	3	4	5		
Interactive Lectures and Discussions	Participate in interactive lectures and discussions to identify the scope and challenges of supply chain management, and to align supply chain strategies with product characteristics, stimulating curiosity, critical thinking, and active questioning	✓	✓					3
Case Study Analyses and Group Projects	Engage in case study analyses and contribute to group projects where we select and justify performance measures, and develop risk mitigation strategies for hypothetical supply chain scenarios, fostering critical thinking, real-life application, and creativity		✓	✓			✓	1
Lab Sessions	Utilize supply chain management software and information technology tools in lab sessions to address and resolve coordination issues, and to develop operational strategies, applying theory to practice and demonstrating effective solutions				✓		✓	1

4. Assessment Tasks/Activities (ATs)

(ATs are designed to assess how well the students achieve the CILOs.)

Assessment Tasks/Activities	CILO No.						Weighting	Remarks
	1	2	3	4	5			
Continuous Assessment: 50%								
Case Exercise	✓	✓	✓				30%	
Assignments				✓	✓		20%	
Examination: 50% (duration: 2 hours, if applicable)								
Examination	✓	✓	✓	✓	✓		50%	
							100%	

5. Assessment Rubrics

(Grading of student achievements is based on student performance in assessment tasks/activities with the following rubrics.)

Applicable to students admitted before Semester A 2022/23 and in Semester A 2024/25 & thereafter

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B, B-)	Fair (C+, C, C-)	Marginal (D)	Failure (F)
1. Case Exercise	The ability to analyze real-world supply chain cases, identify the scope and challenges of supply chain management, align strategies with product characteristics, and justify performance measures.	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Assignments	The ability to apply course concepts and theories to develop solutions for supply chain issues.	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Examination	The ability to identify supply chain scope and challenges, align strategies with product characteristics, select and justify performance measures, utilize IT and theory for coordination, and develop risk mitigation strategies.	High	Significant	Moderate	Basic	Not even reaching marginal levels

Applicable to students admitted from Semester A 2022/23 to Summer Term 2024

Assessment Task	Criterion	Excellent (A+, A, A-)	Good (B+, B)	Marginal (B-, C+, C)	Failure (F)
1. Case Exercise	The ability to analyze real-world supply chain cases, identify the scope and challenges of supply chain management, align strategies with product characteristics, and justify performance measures.	High	Significant	Basic	Not even reaching marginal levels
2. Assignments	The ability to apply course concepts and theories to develop solutions for supply chain issues.	High	Significant	Basic	Not even reaching marginal levels
3. Examination	The ability to identify supply chain scope and challenges, align strategies with product characteristics, select and justify performance measures, utilize IT and theory for coordination, and develop risk mitigation strategies.	High	Significant	Basic	Not even reaching marginal levels

Part III Other Information (more details can be provided separately in the teaching plan)

1. Keyword Syllabus

(An indication of the key topics of the course.)

Introduction to Supply Chain Management (SCM)

What is SCM? The complexity and the key issues in SCM. Supply chain strategies.

Logistics Network

Key parties and their responsibilities. Data essential for logistics network configuration.

Inventory Management

Demand forecasting. Strategic sourcing. Distribution requirement planning, material requirement planning. Inventory management, risk pooling and postponement, and distribution strategies for the supply chain.

Information and Supply Chain Management

The value of information. Bullwhip Effect. Beer Game. Information for supply chain integration and coordination. Vendor managed inventory.

Global supply chain management

Issues such as tax/tariff and rules of origin/trade agreements pertinent to global supply chains; risk management; globalization strategies

Special topics in SCM

Supply chain contract; revenue management; smart pricing.

Technologies and SCM

Enabling technologies such as IT and Internet of Things/RFID and SCM. Emerging trends in the industry.

2. Reading List

2.1 Compulsory Readings

(Compulsory readings can include books, book chapters, or journal/magazine articles. There are also collections of e-books, e-journals available from the CityU Library.)

1.	David Simchi-Levi, Philip Kaminsky, Edith Simchi-Levi, Designing and Managing the Supply Chain, McGraw-Hill, 2009 (3rd ed.)
2.	Gerald Cachon and Christian Terwiesch, Matching Supply with Demand, McGraw-Hill, 2013 (3rd ed.)

2.2 Additional Readings

(Additional references for students to learn to expand their knowledge about the subject.)

1.	Sunil Chopra, Peter Meindl, Supply Chain Management, Strategy, Planning & Operations, Pearson, 2007.
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