

**City University of Hong Kong  
Course Syllabus**

**offered by Department of Systems Engineering  
with effect from Semester A 2024 / 25**

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**Part I Course Overview**

<b>Course Title:</b>	<u>Supply Chain Management</u>
<b>Course Code:</b>	<u>SYE6015</u>
<b>Course Duration:</b>	<u>One Semester</u>
<b>Credit Units:</b>	<u>3</u>
<b>Level:</b>	<u>P6</u>
<b>Medium of Instruction:</b>	<u>English</u>
<b>Medium of Assessment:</b>	<u>English</u>
<b>Prerequisites:</b> <i>(Course Code and Title)</i>	<u>Nil</u>
<b>Precursors:</b> <i>(Course Code and Title)</i>	<u>Knowledge of Basic Probability &amp; Statistics and SEEM3060 Operations Research (offered until 2021/22)/ ADSE3060 Operations Research (offered until 2023/24) / SYE3060 Operations Research</u>
<b>Equivalent Courses:</b> <i>(Course Code and Title)</i>	<u>SEEM6015 Supply Chain Management (offered until 2021/22) ADSE6015 Supply Chain Management (offered until 2023/24)</u>
<b>Exclusive Courses:</b> <i>(Course Code and Title)</i>	<u>Nil</u>

## Part II Course Details

### 1. Abstract

This course aims to develop students' abilities to understand the components of manage the global supply chain of a company or system, including raw material procurement, storage, materials handling, production, inventory, transportation, and delivery.

### 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.	<b>Develop</b> a familiarity with supply chain logistics concepts	30%	✓	✓	
2.	<b>Explain</b> the important concepts and approaches in procurement of materials and distribution of finished products	20%	✓	✓	
3.	<b>Describe</b> the issues in logistics system design and operation	20%	✓		
4.	<b>Understand</b> and apply appropriate, state-of-the-art mathematical principles, quantitative models and techniques to formulate and solve inventory and supply chain management problems	15%	✓		
5.	<b>Discover</b> how information technology and data analytics are adopted to improve existing supply chain systems, and to develop new business models for supply chains.	15%	✓	✓	✓
		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. Learning and Teaching 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	
Large Class Activities	Lectures	✓	✓	✓	✓	✓	33 hrs/sem
Group Work	Group project with a group paper	✓	✓	✓	✓	✓	6 hrs/sem

### 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: <u>50</u> %							
Group Project	✓		✓	✓	✓	30%	
Individual Coursework	✓	✓	✓	✓		10%	
Midterm Tests	✓	✓	✓	✓	✓	10%	
Examination: <u>50</u> % (duration: 2 hours, if applicable)							
Examination will be arranged to assess students' understanding and ability to apply knowledge of supply chain management and operation learnt.	✓	✓	✓	✓	✓	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. Group Project	ABILITY to identify novel applications of state-of-the-art data analytics tools in supply chain systems.	High	Significant	Moderate	Basic	Not even reaching marginal levels
2. Individual Coursework	UNDERSTANDING of the principles of business operation.	High	Significant	Moderate	Basic	Not even reaching marginal levels
3. Midterm Tests	UNDERSTANDING of the principles of business operation in supply chain systems.	High	Significant	Moderate	Basic	Not even reaching marginal levels
4. Examination	UNDERSTANDING and ABILITY to describe the principles of business operation in supply chain systems.	High	Significant	Moderate	Basic	Not even reaching marginal levels

This is a Continuing Education Fund (CEF) Approved Course, to be eligible for reimbursement; students must achieve the following criteria;

- A minimum attendance rate of 70% (Students should sign on the attendance record for every lesson); and
- Grade C+ or above of the reimbursable course.

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. Group Project	ABILITY to identify novel applications of state-of-the-art data analytics tools in supply chain systems.	High	Significant	Moderate/Basic	Not even reaching marginal levels
2. Individual Coursework	UNDERSTANDING of the principles of business operation.	High	Significant	Moderate/Basic	Not even reaching marginal levels
3. Midterm Tests	UNDERSTANDING of the principles of business operation in supply chain systems.	High	Significant	Moderate/Basic	Not even reaching marginal levels
4. Examination	UNDERSTANDING and ABILITY to describe the principles of business operation in supply chain systems.	High	Significant	Moderate/Basic	Not even reaching marginal levels

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**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.)*

- Logistics systems and network
- Data collection, data management, and forecasting
- Inventory management and risk pooling
- Distribution strategies
- Information technology, bullwhip effect, and vendor managed inventory
- Freight transportation and logistics
- Transportation modelling and techniques

**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.	Lecture notes
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**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, Pearson Education.
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