



## BUSINESS SCHOOL

Course Outline 2020

BUSADMIN 766: SUPPLY CHAIN MANAGEMENT (15 POINTS)

Quarter 1 (1202)

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### Course prescription

Creating value through effective and efficient operating and information systems in both product and service-based firms. Emphasises process inter-relationships and infrastructural requirements.

### Course advice

Prerequisite: BUSADMIN 763

Restriction: BUSADMIN 776

### Goals of the course

Supply Chain Management deals with the processes through which supply chains create and distribute goods and services using resources and inputs such as labour, materials, equipment, capital, information, and technology. These processes must be designed and maintained to meet a variety of performance objectives in the presence of variability and conflicting incentives of different supply chain members.

This course supplies students with fundamental knowledge on supply chain management. Further, it enables students to solve common supply chain management problems. However, the ultimate goal of the course is to inspire students to learn more about supply chain management and evolving challenges it faces.

### Learning outcomes (LO)

By the end of the course, it is expected that students will be able to:

#	Learning outcome	Graduate profile capability*
LO1	Formulate supply chain management strategy	1. Disciplinary knowledge and practice 2. Critical thinking
LO2	Apply appropriate methods to match supply and demand in supply chains	1. Disciplinary knowledge and practice 3. Solution seeking

#	Learning outcome	Graduate profile capability*
LO3	Choose appropriate actions to coordinate a supply chain	1. Disciplinary knowledge and practice 3. Solution seeking
LO4	Develop inventory management policies supporting the supply chain management strategy	1. Disciplinary knowledge and practice 3. Solution seeking
LO5	Identify steps to design lean and sustainable supply chains	1. Disciplinary knowledge and practice 6. Social and environmental responsibilities

\* See the graduate profile this course belongs to at the end of this course outline.

### Content outline

Week / Module	Topic	Relevant learning resources/activities	Assessment due this period
Week 1	Supply Chain Strategy	Chopra: 2	
Week 2	Demand Forecasting in Supply Chains	C+T: 13	
Week 3	Capacity and Constraint Management	C+T: 2.2, 2.3, 3.1-3.5 11.5, 9.1-9.7, 9.9, 9.10, 10.1	
Week 4	Inventory Management	C+T: 2.4, 2.5, 5.6, 5.7, 14, 16	Individual Assignment
Week 5	Supply Chain Coordination	C+T: 19.1, 19.2 Beer Game	
Week 6	Role of Contracts in Supply Chains	C+T: 19.3-19.5	Test
Week 7	Supply Chain Network Design	J+C: 14 Supply Chain Simulation	
Week 8	Sustainable Supply Chains	K+M+R: 15	Group Simulation
Week 9	Lean Supply Chains	C+T: 5.1-5.5, 8.1-8.10 House-building Simulation	Group Assignment
Week 10	Course Wrap-up		
Week 11	-	-	Exam

## Learning and teaching

The class meets every Wednesday from 5:30 to 8:30 pm (17:30-20:30). Class time is used for lectures, business case discussions, and business simulations.

It is essential that students read the required readings as advised on Canvas before each class.

For each case discussion, it is recommended that students record key ideas and draft possible answers to the case questions while reading the case, before the discussion in class.

The average workload for the course is approximately 10 hours a week, not including optional readings and activities.

## Teaching staff

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Role	Lecturer
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## Learning resources

The following textbook is optional:

Cachon, G., and Terwiesch, C. (2019) Matching Supply with Demand: An Introduction to Operations Management (4e). McGraw-Hill Education: New York (ISBN 978-1-260-08461-0).

The supplementary resources include:

Chopra, S. (2019) Supply Chain Management: Strategy, Planning, and Operation, 7<sup>th</sup> Edition. Pearson Education: London (ISBN 918-0-13-473188-9).

Jacobs, R. and Chase, R. (2019) Operations and Supply Chain Management: The Core, 5<sup>th</sup> edition. McGraw-Hill Education: New York (ISBN 978-1-260-54762-7).

Krajewsky, L., M. Malhotra, and L. Ritzman (2019) Operations Management: Process and Supply Chains, 12<sup>th</sup> edition. Pearson Education: London (ISBN 978-0-13-474106-2).

The full text of all required readings is available through Canvas.

## Assessment information

Assessment task	Weight %	Group and/or individual	Submission
Individual Assignment	15	Individual	Canvas, 26 Jan
Test	20	Individual	Test room, 19 Feb
Group Simulation	10	Group	Canvas and Simulation Software, 4 Mar
Group Assignment	15	Group	Canvas, 15 Mar
Exam	40	Individual	Exam room, 28 Mar

## Pass requirements

To pass the course you must achieve a weighted average score of 50%. There is no requirement to pass any specific component.

## Description of assessment tasks

Assessment task	Learning outcome to be assessed
Individual Assignment is designed to provide early feedback on students' performance. It is based on qualitative and quantitative material covered in the first three weeks.	1, 2
The Test is 60 minutes, at the start of class in Week 6. It covers material from Weeks 1-5. Open-book. Calculators allowed.	1, 2
The Group Simulation runs in Weeks 7-8. Group size is 3-4. Each group runs a virtual company making key supply chain management decisions for a Week. The grade comes from the final group performance (4 points) and report (6 points).	1, 2, 4
The Group Assignment is a brief report addressing conceptual supply chain management problems. Group size is 3-4 (can be different to Group Simulation)	1, 3, 5
The Final Exam is 2 hours. It covers all course material and tests students' ability to apply theoretical concepts to supply chain problems. It includes quantitative and qualitative questions. Open-book. Calculators allowed.	1, 2, 3, 4, 5

## Inclusive learning

Students are urged to discuss privately any impairment-related requirements face-to-face and/or in written form with the course's convenor/lecturer and/or tutor.

## Academic integrity

The University of Auckland will not tolerate cheating, or assisting others to cheat, and views cheating in coursework as a serious academic offence. The work that a student submits for grading must be the student's own work, reflecting his or her learning. Where work from other sources is used, it must be properly acknowledged and referenced. This requirement also applies to sources on the worldwide web. A student's assessed work may be reviewed against electronic source material using computerised detection to provide an electronic version of their work for computerised review.

## Student feedback

The University of Auckland evaluates the quality of teaching and of courses by using the Summative Evaluation Tool, or SET. Summative evaluation is formal, summative evaluation of teaching undertaken according to University policy and is conducted at the end of a semester/quarter through the use of the formal University SET instruments. Summative evaluation is used by teachers to reflect on their teaching practice and is also used by the University for quality assurance of teaching and courses.

## In the event of an unexpected disruption

We undertake to maintain the continuity and standard of teaching and learning in all your courses throughout the year. If there are unexpected disruptions, the University has contingency plans to ensure that access to your course continues and your assessment is

fair, and not compromised. Some adjustments may need to be made in emergencies, In the event of a disruption, the University and your course coordinators will make every effort to provide you with up to date information via Canvas and the University website.

### Graduate profile for Postgraduate Diploma in Business

The following six themes represent the capabilities that the Business School seeks to foster in all of its graduates. The development of these capabilities does not come all at once, but rather is expected to build from year to year. Each course is not expected to contribute to all capabilities, but each course will have its own goals and learning outcomes that relate to the overall development of this profile.

Graduate Profile	
1. <b>Disciplinary knowledge and practice</b>	Graduates will be able to demonstrate advanced knowledge of general management theory and apply this effectively in a range of contexts.
2. <b>Critical thinking</b>	Graduates will be able to effectively evaluate and synthesise evidence from multiple sources to develop coherent and evidence-based arguments.
3. <b>Solution seeking</b>	Graduates will be able to frame and analyse complex problems, develop practical solutions, and understand the impact and implications of planned implementation.
4. <b>Communication and engagement</b>	Graduates will be able to work effectively in teams and engage varied audiences by communicating professionally using multiple formats.
5. <b>Independence and integrity</b>	Graduates will be able to engage in independent and ethical decision-making and behaviour, demonstrating self-reflection and self-management in complex and ambiguous situations.
6. <b>Social and environmental responsibility</b>	Graduates will recognise, in relation to their field, the potential significance of the principles underpinning the Treaty of Waitangi and sustainability, and demonstrate capability to shape business practice accordingly where appropriate.