

# SUPPLY CHAIN MANAGEMENT (SCM)

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## SCM 7010 Advanced Supply Chain Management 3 cr

Provides students at the graduate level with an in-depth examination of the major issues associated with the management of supply chains. The course content includes both managerial and technical matters, and addresses issues such as the importance of supply chain management in meeting global competition, internet and e-business application, supply chain integration and relationships, sharing risks and rewards, and the reduction of variance in supply chain performance.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: A degree in business or discipline related to supply chain management or approval by instructor.

## SCM 7014 Seminar in Production and Operations Management 3 cr

To critically review, gain a deeper understanding and academic appreciation of the core POM literature; to develop mature researchable ideas that fill research gaps in the area of POM as identified in the articles and in-class discussions; to pursue research topics in POM and conceptualize, craft, and shape intriguing research questions that may lead to long-term researchable programs; to present their research ideas/articles and critique the merits/shortcomings of others' research work in the area of POM

## SCM 7016 Simulation Models for Operations Management 3 cr

Simulation is a powerful tool to analyze complex systems. Simulation is a method to mimic the behavior of real systems. This course introduces computer-based simulation and modeling with applications to supply chain and operations management where decision making can be enhanced through the modeling and analysis of complex systems. The course assumes a previous knowledge of probability and statistics.

## SCM 7018 Seminar in Production & Operations Management 3 cr

The course emphasises empirical/conceptual research and aims to provide an opportunity for graduate students to gain a deeper understanding and an academic appreciation of the Production and Operations Management's literature. This course is a research-based seminar that is designed to be the driver for the graduate students' foundational research knowledge in Production and Operations Management.

## SCM 7020 Seminar in Supply Chain Management 3 cr

This seminar course is designed to expose graduate students to cutting-edge research in supply chain management. It aims to develop an academic appreciation of the area literature by emphasizing empirical and conceptual papers and by assisting students in conducting independent research, critiquing articles, developing novel research ideas, and writing research papers that are both relevant and academically rigorous.

## SCM 7030 DOC SEM IN SC SUSTAINABILITY 3 cr

This course adopts a broad view of supply chain sustainability. From a functional perspective, SCM includes logistics, purchasing, and a few aspects of marketing. Sustainability is also a multi-dimensional concept, spanning environmental, cultural, social and economic elements. The course has a special focus on sustainable transportation. Various research methods, from content analysis to analytical modeling to survey research are discussed. Delivery happens via a variety of interactive lectures, individual and small group exercises, discussions, and writing/presenting a supply chain sustainability term paper.

## SCM 7040 Logistics Management 3 cr

Logistics Management is the part of supply chain management that plans, implements, and controls the efficient, effective forward and reverse flow and storage of goods, services, and related information between the point of origin and the point of consumption in order to meet customers' requirements. This course provides a practical, management perspective of the following areas of logistics: distribution, transportation, international logistics, inventory control, sustainable logistics practices, key performance indicators, supply chain finance, leadership in a supply chain role, and an introduction to logistics technology including RFID and ERP systems.

## SCM 7042 Purchasing and Procurement in Supply Chains 3 cr

Purchasing and procurement functions are about much more than bringing goods and services into an organization. They are the foundation of strong, collaborative relationships with suppliers. Since many companies source products from around the globe more frequently than ever, a procurement manager needs strong capabilities. These skills cannot just be learned on the job: they need to be taught. As well, the value of procurement is now recognized as an integral part of cost control within the organization. In this course, you'll learn the basics of procurement, including what a supply chain looks like, the purchasing cycle, essential tools and strategies for making the best purchasing relationships work, managing bids, and more.

## SCM 7044 Supply Relationship Management 3 cr

Successful Supplier Relationship Management (SRM) needs effective contract and performance management in place for the selected suppliers. Also, a successful SRM programme needs full engagement from the key stakeholders across the business. However, engaging internal stakeholders in SRM activities is challenging and the ability to sell internally and externally is essential. Since maximising the value that is captured from major suppliers delivers significant business benefits, this course covers the approaches needed internally and externally to secure value delivery from suppliers.

## SCM 7046 Sustainable Supply Chain Management 3 cr

Sustainability efforts can open many opportunities for businesses—product innovation can lead to first-mover advantage, environmental product differentiation can open new markets, green sourcing and waste reduction can reduce operating cost, etc. At the same time, they can present significant challenges—governments and communities are imposing higher standards on pollution, resource exploitation, etc. This course aims to provide students with an understanding of the sustainability challenges and opportunities facing supply chains today. We will look at some of the factors that are contributing to the adoption of sustainability strategies, such as legislations that are penalizing negative environmental and social impacts, and society's expectations of business in terms of health, human rights, and the environment. The supply chains today cannot be concerned only with creating shareholder value; their performance is also measured in terms of social, environmental and economic impact.

## SCM 7048 Advanced Supply Chain Management 3 cr

Advanced Supply Chain Management (ASCM) provides a theoretical basis for multi-disciplinary analysis and improvement of supply chains and networks, focusing especially on supply chain modelling methods to support managerial decision making. Supply chains are often globally interconnected systems with a large variety of complex relationships. This is also affecting the ways in which goods and services are developed, produced, processed and delivered to the market.

**PR/CR: A minimum grade of C is required unless otherwise indicated.**

Prerequisite: MSCI 7140.

**SCM 7050 Co-op in Supply Chain Management and Logistics 3 cr**

This course aims to provide students with a hands-on experience in Supply Chain Management and Logistics. Students will be placed in positions within organizations operating in the Province of Manitoba and Canada to experience supply chain management and logistics management in practice. A pre-employment training to students without significant work experience in North America may be required. The pre-employment training and placement of students will be performed in coordination with the Asper School of Business Graduate Co-operative Education Program, always striving to match the interests of the student with the interests of the hosting organization. This course is graded on a pass/fail basis.

**SCM 7052 Applied Project in Supply Chain Management and Logistics 3 cr**

This course aims to provide students with a hands-on experience in Supply Chain Management and Logistics. Students will explore and address real issues in the supply chain and logistics sector in the context of the Province of Manitoba and/or Canada under the supervision of a Faculty Member of the Department of Supply Chain Management, Asper School of Business, and in close connection with the target organization. This course is graded on a pass/fail basis.