

Supply Chain Management - Emergent Technologies (Brampton)

Section B.46
2024-05-17

Ontario College Graduate Certificate (2 Years - 4 Semesters) (5903)

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PROGRAM OVERVIEW

This four-semester graduate certificate prepares students with supply chain and management concepts and practice to succeed in the industry.

Successful graduates of this program will achieve a Certificate in International Freight Forwarding from the Canadian International Freight Forwarders Association (CIFFA). The certificate is recognized within the international transportation and international trade logistics industries. Graduates of this program can also achieve a Certificate of Recognition in Introductory Dispatch and Operations Software from Universal Freight Operating System (UFOS). The certificate is evidence that students are prepared to use the UFOS transportation management system, which is used by hundreds of supply chain organizations across North America.

ADMISSIONS

MINIMUM ACADEMIC REQUIREMENTS

Ontario College Diploma, Ontario College Advanced Diploma, Degree, or equivalent.

Applicants whose first language is not English, must provide proof of English proficiency. Sault College accepts the TOEFL, or IELTS, or equivalent test to satisfy our English admission requirements.

CAREER PATHS

Employment opportunities for graduates of this program are in high demand and spans all industries. The supply chain sector currently involves professionals who work in a range of occupations and industries such as freight transportation arrangements, government agencies, manufacturing and production industries, retailers and distributors, third-party logistics firms, transportation and warehousing organizations, and wholesale trade companies.

EDUCATIONAL PATHS

Graduates of Sault College's One-Year Supply Chain Management Graduate Certificate will be able to enter the second year of the Two-Year program with Advanced Standing.

Other graduates who would feed into the program:

- Ontario College Diploma programs, with special interest to graduates of programs in the Business cluster.

Graduates of the Advanced Supply Chain Management - Emergent Technologies program could pursue other Ontario College Graduate Certificate programs.

PROGRAM OF STUDY

SEMESTER 1

ACC209-4 Managerial Accounting
BCO118-3 Computer Applications for Business I
SCM101-3 Intro to Logistics & Supply Chain Mgmt
SCM102-3 Analysis of Supply Market & Suppliers
SCM106-4 Employment and Career Readiness
SCM202-3 Communicating in Supply Chain Management

SEMESTER 2

SCM103-4 Supply Chain Distribution Fulfillment
SCM104-3 Logistics Operating Methods and Systems
SCM105-3 Tech & Comp Apps in Supply Chain Mgmt
SCM201-4 Global Supply Chain Management
SCM203-4 Advanced Logistics & Transportation Mgmt
SCM204-3 Customs, Compliance and Security

SEMESTER 3

BCG216-3 Corporate Responsibility
GBM308-3 Business Analytics & Data Strategy
SCM301-3 Professional Purchasing
SCM302-4 International Transportation and Trade
SCM303-4 Essentials of Freight Forwarding (CIFFA)
SCM304-3 Inventory Control and Materials Management

SEMESTER 4

SCM400-12 SCM Internship and Seminar

Course Descriptions

Semester 1

Managerial Accounting (ACC209) (4 credits)

In this course, students will learn how to effectively use the accounting information that is required by managers to plan, direct, and control the operations of their business organization. Students will gain an understanding of managerial accounting data pertaining to cost systems, cost behaviour, cost-volume-profit relationships, decision-making, and budgeting.

Computer Applications for Business I (BCO118) (3 credits)

In this course, students will have exposure to a comprehensive Windows-based financial spreadsheet package to enhance their problem solving abilities. The package used will be Microsoft Excel 2019 for Windows. The student will use this as a tool to prepare various reports and presentations, and applications which can be transferred in work commonly performed in the modern office. Students will gain hands-on experience in learning and understanding the software, as well as creating and developing spreadsheet applications. Students will develop and enhance spreadsheets, charts, data lists, tables, macros and perform what-if analysis. An overview of MS Word will also be included in this course.

Intro to Logistics & Supply Chain Mgmt (SCM101) (3 credits)

This course introduces students to procurement, operations and logistics management in a coordinated and efficient corporate operation. Students are introduced to the management of the flow of products from raw material sourcing and acquisition through delivery to the final user.

Analysis of Supply Market & Suppliers (SCM102) (3 credits)

This course focuses on an analysis of supply market conditions, and will cover topics that support sourcing strategy development, contract negotiations and cost management initiatives.

Employment and Career Readiness (SCM106) (4 credits)

This course facilitates plans and processes to achieve a successful job search in Canada within the supply chain management industry including the development of targeted resumes and cover letters, identification of all relevant job search resources, learning effective interview skills and using social media as part of the job search process. This course also discusses personal and professional development strategies for growth and lifelong learning.

Communicating in Supply Chain Management (SCM202) (3 credits)

This course focuses on the development and refinement of effective interpersonal communication skills. The course includes advanced communication strategies, presentation and research skills, business document writing, meeting and management team strategies, business etiquette, and advanced employment communications including intercultural communication.

Semester 2

Supply Chain Distribution Fulfillment (SCM103) (4 credits)

This course provides a comprehensive introduction to the process from product development through order receipt and delivery to consumer.

Logistics Operating Methods and Systems (SCM104) (3 credits)

This course evaluates the role of efficient logistics and transportation services, and the impact on corporate effectiveness. Topics include: risk management, security, customer service and order fulfillment, distribution operations, purchasing or operation of transportation services, third-party providers and customs documentation.

Tech & Comp Apps in Supply Chain Mgmt (SCM105) (3 credits)

This course examines various aspects of computer applications supporting logistics and supply chain processes, analysis and decision-making applications for planning and scheduling, data mining and research tools for supportive decision-making, and office suite applications for professional presentations and documents.

Global Supply Chain Management (SCM201) (4 credits)

This course examines the requirements for global operations and strategy development. Topics include sourcing products and services, compliance with best practices, and international and domestic laws and trade agreements. Similarities and differences of international and domestic operations will be explored.

Advanced Logistics & Transportation Mgmt (SCM203) (4 credits)

This course provides an advanced analysis of logistics and transportation services, customer service, distribution operations, purchasing, order processing, facility design and operations, carrier selection, transportation costing, and negotiation.

Customs, Compliance and Security (SCM204) (3 credits)

This course discusses customs including the role of customs and border protection, supply security programs, export programs and tariffs, brokers, and trusted traders.

Semester 3

Corporate Responsibility (BCG216) (3 credits)

In this course, students will learn about the role of corporations in society including their responsibility to contribute to positive environmental sustainability and social impact outcomes. Students will learn about corporate responsibility challenges facing businesses today, including climate change, social injustice, greenwashing, and resource use. Students will also learn how organizations are successfully rising to meet these challenges and enhancing both their economic and environmental performance through community initiatives, stakeholder engagement, global partnerships, and ESG reporting. Students will define good ESG performance, examine ethical issues in business as it relates to environmental and social topics, and will look at mechanisms such as legislation and social activism that aim to hold corporations accountable.

Business Analytics & Data Strategy (GBM308) (3 credits)

This course introduces data driven business decision making skills that better inform practices in the workplace. Through the use of statistical tools, students will prepare and interpret visual representations of data.

Professional Purchasing (SCM301) (3 credits)

The course explores the purchasing cycle including supply management and commodity strategy, supplier qualification, selection, and management. Students will also learn why performance metrics are critical to purchasing performance. Students will gain insight into the role of a professional purchaser, including purchasing strategy, best practices and applying ethics to the function.

International Transportation and Trade (SCM302) (4 credits)

This course is one of two that are part of a professional standards association program (Canadian International Freight Forwarders Association) which provides you with a broad introduction to the basics and principles of freight forwarding. A combined theory and hands-on environment allow you to gain a deeper understanding of the role of the freight forwarder, transportation geography, various modes of transportation, and how terms of trade are used between buyer and seller in a contract of sale of goods.

Essentials of Freight Forwarding (CIFFA) (SCM303) (4 credits)

This course builds on the knowledge acquired in the International Transportation and Trade course. A combined theory and hands-on environment will introduce students to the requirements for various international payments, export packaging and warehousing, commercial documentation, transportation insurance, cargo security and dangerous goods, as well as alternative methods of transportation. They will also learn about cost and quoting.

Inventory Control and Materials Management (SCM304) (3 credits)

This course provides students with a broad Canada-based introduction to the basics of materials management, manufacturing planning and control systems, inventory control, physical distribution, and

relationships with other operational functions within the supply chain.

Semester 4

SCM Internship and Seminar (SCM400) (12 credits)

This course combines a work placement and seminar. Throughout the 300-hour placement period, students will come together each week for a two-hour seminar.

Internship - The goal of the internship is to help students get real-world experience within the supply chain management industry in Canada.

Seminar - The goal of this seminar is to develop the abilities of students to become supply chain leaders and supply chain management professionals, i.e., to lead groups of people and to manage change. This workshop focuses on the issues in leadership and professionalism, such as developing best practice leadership characteristics, becoming self-aware, creating a vision and a mission statement, and performing the steps toward effective leadership. The Leadership and Professionalism workshop draws from the works of a variety of credible and well-respected "thought leaders" in the areas of leadership, management, and human relations.