

PROGRAM INFORMATION

Academic Year	2024 – 2025
Credential	Graduate Certificate
Program Delivery	Full - Time
Duration	2 Years
Length	4 Semesters
Program Code	B307

DESCRIPTION

International Students Only

Supply Chain Management is a two-year Ontario College Graduate Certificate program (completed in four semesters). It is designed for individuals looking at a career or who are currently employed in the area of supply chain and logistics management.

Students will learn to research and analyze the marketplace; develop demand forecasts; evaluate suppliers' capabilities to deliver; utilize logistics technology tools and resources to assist in decision making; develop aggregate and master production plans/ schedules; and analyze business processes. Industry-standard theories, methods, and techniques (Six Sigma, Total Quality Management, Just-in-Time, Lean Theory of Constraints) and how they apply to supply chain management strategies and problem solving will also be covered. Graduates of this program will have applied knowledge in the field of supply chain management within a global economy, from planning, sourcing, producing and delivering the product or service.

This program will provide students with valuable and relevant work experience, transferable skills sought by employers, and an opportunity to explore career interests before graduation. Through the Work placement experience, students will enhance the understanding of Supply Chain and Logistics learned in class and practice the business skills in the real-world.

CAREER OPPORTUNITIES

1. Supply chain coordinator
2. Warehouse and distribution coordinator
3. Purchasing agent or officer
4. Operations coordinator
5. Employed in various workplaces in the private and public sectors

VOCATIONAL LEARNING OUTCOMES

1. Examine the connections between strategic objectives, stakeholder expectations, and supply chain design, functions, processes and roles, to guide decision-making, problem-solving and coordination of tasks.
2. Determine the value added and financial implications of supply chain decisions and design on overall business profitability, efficiency and stakeholder satisfaction.

3. Ensure supply chain activities and transactions are compliant with relevant legal, regulatory and contractual obligations, and industry and organization standards and policies for quality, health, safety, accountability, social and environmental responsibility.
4. Use risk mitigation tools and strategies to inform supply chain management decisions.
5. Contribute to the acquisition and sale of goods, service and materials in accordance with best practices and public and private sector stakeholder expectations across a variety of industries.
6. Contribute to the strategic planning and scheduling of material requirements, resource allocation and inventory for efficient production and fulfillment of customer orders and returns.
7. Coordinate the efficient handling and movement of goods, services, materials and related information within and between supply chains.
8. Contribute to the identification and management of continuous improvements to functions and processes within and between supply chains.
9. Use available technologies to enhance work performance and support supply chain functions, processes, transactions and communications.
10. Monitor relevant trends, emerging technologies, and local and global economic, political and environmental issues to enhance work performance and guide management decisions.
11. Use leadership and communication skills to establish and manage strategic relationships with a diversity of stakeholders and support the achievement of business goals.
12. Develop and apply ongoing strategies for personal, career and professional development.

PROGRAM COURSES

The following reflects the planned course sequence for full-time offerings of the program. Programs at Northern College are delivered using a variety of instruction modes. Courses may be offered in the classroom or lab, entirely online, or in a hybrid mode which combines classroom sessions with virtual learning activities.

Semester 1		Hours
BU1103	Introduction to Human Resources	42
BU1193	Business Process Development	42
BU1303	Supply Chain Management	42
BU2153	International Business/Marketing	42
BU3044	Operations Management	56
BU3073	Business Reports	72
Semester 2		
BU1223	Global Supply Chain Management	42
BU1273	Purchasing and Supplier Management	42
BU1283	Inventory Management	42
BU4113	Project Management	42
IN2263	Global e-Business Management	42
IN6334	Information Systems	56
Semester 3		
BU1243	International Trade Finance	42
BU2103	International Trade Law	42
BU2163	Transportation	42
BU3083	Work Experience Preparation	42
BU1263	Distribution Management	42
BU3023	Logistic Strategy	42
Semester 4		
BU6011	Work Placement	560

PROGRAM PROGRESSION

The following reflects the planned progression for full-time offerings of the program.

Fall Intake

- Sem 1: Fall 2023
- Sem 2: Winter 2024

Winter Intake

- Sem 1: Winter 2024
- Sem 2: Summer 2024

WORK INTEGRATED LEARNING OPPORTUNITIES

BU7011 is a work placement course in Semester 4.

ARTICULATION/TRANSFER AGREEMENTS

A number of articulation agreements have been negotiated with universities and other institutions across Canada, North America and internationally. These agreements are assessed, revised and updated on a regular basis. Please contact the program coordinator for specific details if you are interested in pursuing such an option. Additional information can be found at [Articulation Agreements](#).

ADDITIONAL INFORMATION

N/A

PROGRAM SPECIFIC REQUIREMENTS

N/A

ADMISSION REQUIREMENTS

International Admission Requirements

1. Ontario College Diploma, Ontario College Advanced Diploma, Degree or Equivalent in a related field of study (e.g. Business, Commerce, Supply Chain, Logistics),
2. English Proficiency (we will require one of the following):

Applicants possessing degrees/diplomas from institutions where the language of instruction was not English will be required to provide test scores as evidence of their English language proficiency.

- IELTS Academic International English Language Testing System: a minimum overall score of 6.0 must be achieved with no individual band score under 6.0.
- TOEFL (Test of English as a Foreign Language) – Computer-based overall minimum score of 80+
- PTE (Pearson Test of English) Academic – Graduate Diploma: 60+

All educational documents must be submitted in English and will be dependent on the country of citizenship. For more information, please contact admissions@northern.on.ca.

GRADUATION REQUIREMENTS

- 18 Program Courses
- 1 Work Placement

GRADUATION ELIGIBILITY

To graduate from this program, a student must attain a minimum of 60% or a letter grade of CR (Credit) in each course in each semester unless otherwise stated on the course outline. Students should consult departmental policies and manuals for additional detail and exceptions.

GRADUATION WINDOW

Students unable to adhere to the program duration of two years (as stated above) may take a maximum of four years to complete their credential. After this time, students must be re-admitted into the program, and follow the curriculum in place at the time of re-admission.

CONTACT INFORMATION

For questions about being admitted into the program, please contact Northern College Admissions at admissions@northern.on.ca or by phone at 705-235-3211 ext. 7222. For questions about the content of the program, contact the Program Coordinator.

Ashley Wojtus, Program Coordinator
Tel: 705-235-3211 ext. 2700
Email: wojtusas@northern.on.ca

COURSE DESCRIPTIONS

Semester 1

BU1103 Introduction to Human Resources

In this course, students will learn how proper recruitment/selection strategies, and training and development methods, maintain an organization's competitive advantage. The integral role of job design and analysis in affecting compensation management and performance appraisal decisions will be examined. Students will investigate a variety of employment and health and safety laws as they relate to managing a diverse workforce. In addition, the fundamental principles of the union-management framework will be explored.

BU1193 Business Process Development

Students examine the core business processes that are integral to the activities of a business. Students study Enterprise Resource Planning systems, the integration of transaction level processes and the "Order-to-Cash", "Procure-to-Pay", and the "Production" processes. Financial and Controlling processes as well as Human Resource processes are also examined. Business processes define the steps involved in completing various business activities, such as order taking, purchasing, materials management, financial accounting and planning. Understanding these processes and how they cross department and organizational boundaries is critical to assessing real world business operations. Students enhance their knowledge of how computer systems support business processes through extensive hands-on experience using commercial based Enterprise Resource Planning (ERP) software simulation.

BU1303 Supply Chain Management

An introduction to the study of Supply Chain and Logistics Management, this course will encompass the planning and management of all activities involved in sourcing, procurement, conversion, and logistics management activities. It spans all movement and storage of raw materials, work-in-process inventory, and finished goods from point of origin to point of consumption. Important elements of logistics will also be covered: forecasting and demand management, procurement, transportation, production planning, inventory management, materials handling, warehousing and distribution functions associated with the movement, production and storage of goods as well as benchmarking supply chain performance and the role of information technology in making supply chain decisions.

BU2153 International Business/Marketing

This subject introduces the major aspects of international business in today's dynamic global economy. International marketing is emphasized. Applications of theories are embedded in discussions and case studies on how corporate practices are adapting to the ever-changing marketplace.

BU3044 Operations Management

This course will cover the following concepts related to Operations Management: Illustrate the importance of operations management in the context of an organization's strategic plan. Assess the role of supply chain management, logistics, and inventory strategies to support operational requirements. Determine the layout for goods and service producers to maximize efficiency and support organizational goals. Assess the impact of product/service design processes and benchmarking on productivity to support the organization's goals. Assess strategies for the scheduling of production and staff which support the most productive operations of a facility. Assess the impact of quality control and quality assurance systems and programs to support the

organization's goals. Apply qualitative considerations and quantitative methods to the management decision making involved in the day to day operations of a business. Appreciate the scope of subjects and knowledge necessary for effective and efficient management of business operations, and to optimize the customer value created. Understand the connection between the different types of decisions made by operations managers, and the different types of mathematical models available to support management decision making. Communicate clearly the results of analysis and the application of quantitative methods to operational decisions to the managers involved.

BU3073 Business Reports

Business reports and proposals are critical documents that communicate the analysis of problems and opportunities to a variety of stakeholders. In this course, students will learn all aspects of writing and presenting reports and proposals including: analyzing the business situation; selecting appropriate data and information; drawing credible conclusions and making recommendations; and presenting findings effectively using various professional written, visual and oral tools and formats.

Semester 2

BU1223 Global Supply Chain Management

This course focuses on both strategic and tactical issues in international operations management, including capacity planning, materials management, modes of transportation, Incoterms, supply chain management and global sourcing and manufacturing.

BU1273 Purchasing and Supplier Management

This course introduces the student to Purchasing and Supply Management. The term "Purchasing" describes the process of buying: learning of a need, locating and selecting a supplier, negotiating a price and other pertinent terms, and following up to ensure delivery. "Supply Management" refers to an organizational structure where there is a single manager responsible for the planning, organizing, motivating, and controlling of all those activities principally concerned with the flow of materials into an organization.

BU1283 Inventory Management

This course is designed to provide an introduction to the fundamental nature of inventory from a financial, physical, forecasting, and operational standpoint. The instructor will guide the student to the areas of forecasting, physical control and layout, and problem recognition and resolution. Students will also gain general knowledge of the ERP software for material management.

BU4113 Project Management

In this course, students will develop managerial skills to propose, plan, secure resources, budget, and lead project teams to successful completions of projects. Students will also learn why organizations have developed a formal project management process supported by the Project Management Institute (PMI) and its Project Management Body of Knowledge (PMBOK) to gain a competitive advantage. The case study approach will be used along with an investigation of software and collaboration tools that aid in carrying out activities of project planning and project execution.

IN2263 Global e-Business Management

This course introduces students to e-commerce concepts within the framework of e-business. Students will examine how businesses can benefit from using e-commerce, the strategies used to conduct business online, the technologies utilized, and the importance of e-commerce integration within an organization. Legal, ethical, taxation and security issues will be examined from the viewpoint of recognizing and controlling areas of risk in e-commerce. All concepts examined will be put into context through the creation of a working “shopping cart” application for use on a website.

IN6334 Information Systems

The most successful science communicator of the 20th century, Dr. Carl Sagan explained it best when he said “We live in a society exquisitely dependent on science and technology, in which hardly anyone knows anything about science and technology”. This course is designed to address this issue by educating students on the basic operation and function of the information systems that we use on a daily basis. Today everyone makes use of information systems. To be successful in a modern business career you must be able to view information systems from the perspective of business and explain what information systems can and cannot do and be able to use them to help you accomplish your work. You will be expected to discover opportunities to use information systems & to participate in the design solutions to business problems employing information systems.

Semester 3

BU1243 International Trade Finance

This course demonstrates a practical approach to the design, implementation and management of a number of financial strategies to mitigate the unique risks in financing trade internationally. Students will gain an understanding of the processes used by the financial industry to examine differing markets and environments. Advanced case studies and related topics will be analyzed based on real-life situations. Students will learn how to develop a major financial proposal.

BU2103 International Trade Law

This course introduces the intricate international legal framework that enables individuals, businesses and governments to successfully and legally exchange goods and services across borders. Students will evaluate the legal principles applicable to any business or corporation activity involving a Canadian business venture abroad. An analysis of foreign laws that are of particular interest for Canadian businesses will also be an important part of the course. Students will also learn how to interpret public trade law encompassing inter-government agreements of international trade and international treaties and conventions.

BU2163 Transportation

This subject focuses on the operational, financial and managerial aspects of transportation. In a global manufacturing corporation’s supply chain, all of the facilities are identified by nodes while transportation is represented by all of the links between these nodes. Transportation is one function that spreads across the supply chain. Students will learn how to quickly adapt to changing conditions, manage the transportation of raw materials and goods to or from international destinations as well as across Canada’s complex geography. They will also know how to choose the safest and most cost-effective and time-appropriate mode or combinations of modes.

BU3083 Work Experience Preparation

The purpose of this course is for students to enhance their career planning skills and apply these skills to effectively prepare for Co-op Work Terms. Skills such as cover letter and resume development, job search, researching, networking, letter writing and interviewing will be developed and practiced. Additionally, students will focus on “soft” skills such as self-awareness, goal setting, interpersonal communication, personal presentation and business etiquette. Active participation will be required as students will be learning experientially, collaboratively and cooperatively in class and online.

BU1263 Distribution Management

A continuation of the Supply Chain Management course, Distribution Management focuses on the physical distribution or outbound process of a global corporate operation. Aspects of sales force management, territory management, the distribution system and distribution management will be explained through case studies, diagrams, flowcharts and numerous examples. Total Quality Management, forecasting and distributing planning will also be covered.

BU3023 Logistic Strategy

Supply Chains and Logistics are always changing, creating a necessity for organizations to be flexible. Creating a comprehensive Logistics strategy for specific markets, regions and clients can help move an organization forward while still working within its most effective framework. Cost analysis, optimization and product lines will be explored in this class.

Semester 4

BU711 Work Placement

This course allows students the opportunity to apply the knowledge and skills learned in class to the real world technology environment. It provides them the opportunity to create and develop Supply Chain Management projects and to be able to test the results of their work in a field placement (real world) situation. Students also practice interpersonal communication skills, organizational skills, and standard performance goals and modify their skills to meet employer/workplace expectations. This course will provide students with valuable and relevant work experience, transferable skills sought by employers, and an opportunity to explore career interests before graduation.