

Area of Interest: Business

## Supply Chain Management - Global (Co-op and Non Co-op Version)

Ontario College Graduate Certificate

Program Code: 1319X03FWO

1 Year

Ottawa Campus

### Our Program

**Take an international view with a challenging and rewarding career in global supply chain management.**

With a focus on global business, the Supply Chain Management - Global Ontario College Graduate Certificate program prepares you for careers in the fields of logistics, procurement, and supply chain and operations management.

Businesses look to global supply chains to extend their entry into new markets and to expand their access to a wide range of resources beyond the local market. In this program you explore ways to integrate end-to-end supply chain functions from raw material suppliers to the final customer and align them with companies' product and service strategies. Topics include procurement and purchasing; transportation and logistics; and business analytics and process improvement.

Benefit from the experience of and engagement with industry professionals as you explore real-world scenarios and case studies related to online retailer value chains and sustainable product life-cycles. Gain the skills and experience necessary to be successful in a high-performing team environment including leadership, communication and continuous improvement.

Students also have the option to gain real-world experience through a paid co-operative education (co-op) work term (see Additional Information for more details). Please note that places in the co-op work term are subject to availability and academic eligibility. Please note admission to the co-op program does not guarantee a co-op placement.

As a graduate of the Supply Chain Management - Global program, you may find employment in private, public and non-profit organizations such as:

- warehousing and distribution centers
- online and traditional retailers
- freight transportation and logistics
- third-party logistics (3PL)
- first mile and mid-mile logistics
- manufacturing

### SUCCESS FACTORS

This program is well-suited for students who:

- Enjoy working independently and as a member of interprofessional and culturally diverse teams.
- Possess strong organizational, and decision-making skills.
- Respect and value the ideas, perspectives and expertise of others.

- Enjoy problem solving with numbers.
- Have keen attention to detail, process and continuous improvement.
- Are able to respond rapidly to changing scenarios.

## Employment

Graduates may find employment as area logistics manager, global logistics manager, logistics coordinator, operations manager, purchasing officer or manager, procurement specialist, supply chain manager or project manager, or warehouse manager.

## Learning Outcomes

The graduate has reliably demonstrated the ability to:

- 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.
- Determine the value added and financial implications of supply chain decisions and design on overall business profitability, efficiency and stakeholder satisfaction.
- 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.
- Use risk mitigation tools and strategies to inform supply chain management decisions.
- Contribute to the acquisition and sale of goods, services and materials in accordance with best practices and public and private sector stakeholder expectations across a variety of industries.
- Contribute to the strategic planning and scheduling of material requirements, resource allocation and inventory for efficient production and fulfillment of customer orders and returns.
- Coordinate the efficient handling and movement of goods, services, materials and related information within and between supply chains.
- Contribute to the identification and management of continuous improvements to functions and processes within and between supply chains.
- Use available technologies to enhance work performance and support supply chain functions, processes, transactions and communications.
- Monitor relevant trends, emerging technologies, and local and global economic, political and environmental issues to enhance work performance and guide management decisions.
- Use leadership and communication skills to establish and manage strategic relationships with a diversity of stakeholders and support the achievement of business goals.
- Develop and apply strategies for personal, career and professional development.
- Utilize domestic and foreign government programs, policies, and agencies to facilitate international trade.
- Identify and apply discipline-specific practices that contribute to the local and global community through social responsibility, economic commitment and environmental stewardship.

## Program of Study

Level: 01	Courses	Hours
GEP1001	Cooperative Education and Job Readiness	18.0
MGT1201	International Project Management and Leadership	42.0
MGT1216	Global Supply Chain Management 1	56.0
MGT1217	Financial and Management Accounting Foundations	42.0
MGT1218	Inventory and Materials Management	42.0
MGT1219	Global Procurement Management Principles	42.0
MGT1220	Strategic Capacity Planning and Demand Management	42.0
Level: 02	Courses	Hours
MGT2100	Global Supply Chain Management 2	42.0
MGT2119	Global Logistics Management	42.0
MGT2144	Global Procurement Management Applications	42.0
MGT2145	International Transportation and Trade	42.0
MGT2147	Continuous Improvement	56.0
MGT2148	Business Analytics and Decision-Making Industry Project	56.0
Co-op: 01	Courses	Hours
WKT2302	Global Supply Chain Management Co-Op Work Term	0.0

## Fees for the 2023/2024 Academic Year

Tuition and related ancillary fees for this program can be viewed by using the Tuition and Fees Estimator tool at <https://www.algonquincollege.com/fee-estimator>.

Further information on fees can be found by visiting the Registrar's Office website at <https://www.algonquincollege.com/ro>.

Fees are subject to change.

Additional program related expenses include:

- Books cost approximately \$800 - \$1,200.

## Admission Requirements for the 2024/2025 Academic Year

### Program Eligibility

- Ontario College Diploma, Ontario College Advanced Diploma, Degree or equivalent.
- Applicants with international transcripts must provide proof of the subject-specific requirements noted above and may be required to provide proof of language proficiency. Domestic applicants with international transcripts must be evaluated through the International Credential Assessment Service of Canada (ICAS) or World Education Services (WES).
- IELTS -International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22; OR Duolingo English

- IELTS -International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22; OR Duolingo English Test (DET) Overall 120, minimum of 120 in Literacy and no score below 105.

## Admission Requirements for 2023/2024 Academic Year

### Program Eligibility

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- IELTS -International English Language Testing Service (Academic) Overall band of 6.5 with a minimum of 6.0 in each band; OR TOEFL-Internet-based (iBT)-overall 88, with a minimum of 22 in each component: Reading 22; Listening 22; Speaking 22; Writing 22.

### Application Information

#### **SUPPLY CHAIN MANAGEMENT - GLOBAL (CO-OP AND NON CO-OP VERSION)** **Program Code 1319X03FWO**

Applications to full-time day programs must be submitted with official transcripts showing completion of the academic admission requirements through:

ontariocolleges.ca  
60 Corporate Court  
Guelph, Ontario N1G 5J3  
1-888-892-2228

Students currently enrolled in an Ontario secondary school should notify their Guidance Office prior to their online application at <http://www.ontariocolleges.ca/>.

Applications for Fall Term and Winter Term admission received by February 1 will be given equal consideration. Applications received after February 1 will be processed on a first-come, first-served basis as long as places are available.

International applicants please visit this link for application process information:  
<https://algonquincollege.force.com/myACint/>.

For further information on the admissions process, contact:

Registrar`s Office  
Algonquin College  
1385 Woodroffe Ave  
Ottawa, ON K2G 1V8  
Telephone: 613-727-0002  
Toll-free: 1-800-565-4723  
TTY: 613-727-7766  
Fax: 613-727-7632  
Contact: <https://www.algonquincollege.com/ro>

### Additional Information

#### **CO-OP INFORMATION:**

All applicants apply directly to the co-op version of this program through <http://ontariocolleges.ca/> or our International Application Portal. Applicants not wishing to pursue the co-op version will have the opportunity to opt-out after being admitted to the program but prior to the first co-op work term.

Co-operative education (Co-op) allows students to integrate their classroom learning with a real-world experience through paid work terms. Two academic terms prior to the cooperative education work term, students are required to actively participate in and successfully complete the self-directed co-op course, readiness activities and workshops.

Students must actively conduct a guided, self-directed job search and are responsible for securing approved program-related paid co-op employment. Students compete for co-op positions alongside students from Algonquin College and other Canadian and international colleges and universities. Algonquin College's Co-op Department provides assistance in developing co-op job opportunities and guides the overall process, but does not guarantee that a student will obtain employment in a co-op work term. Co-op students may be required to relocate to take part in the co-op employment opportunities available in their industry and must cover all associated expenses; e.g., travel, work permits, visa applications, accommodation and all other incurred expenses.

Co-op work terms are typically 14 weeks in duration and are completed during a term when students are not taking courses. For more information on your program's co-op level(s), visit the courses tab on your program's webpage.

International students enrolled in a co-op program are required by Immigration, Refugees and Citizenship Canada (IRCC) to have a valid Co-op/Internship Work Permit prior to commencing their work term. Without this document International students are not legally eligible to engage in work in Canada that is part of an academic program. The Co-op/Internship Work Permit does not authorize international students to work outside the requirements of their academic program.

For more information on co-op programs, the co-op work/study schedule, as well as general and program-specific co-op eligibility criteria, please visit <https://www.algonquincollege.com/coop>.

## Contact Information

### Program Coordinator(s)

- Ahmad Teymouri, <mailto:teymoua@algonquincollege.com>, 613-727-4723, ext. 2463

## Course Descriptions

### GEP1001 Cooperative Education and Job Readiness

Students are guided through a series of activities that prepare them to conduct a professional job search and succeed in the workplace. Through a detailed orientation students learn the cooperative education program policies and procedures related to searching and securing a work term opportunity. Students identify their strengths and transferable skills and participate in workshop-style sessions that focus on cover letter and resume development, interview techniques and job search strategies. Students learn how to navigate a web-based resource centre, which is used to post employment and cooperative education job opportunities. Students reflect on workplace success, ethics and responsibilities.

Prerequisite(s): none

Corequisite(s):none

### MGT1201 International Project Management and Leadership

International businesses are turning to project management strategies to meet and achieve their strategic and operational goals. Students learn the basic principles of project management related to global corporations and operations, and then interpret the essential components of project planning, organizational methodologies and structures specific to project needs, control measures and processes required when managing for project success. The critical role of leadership and power is identified, as well as the influence of project managers in relation to various stakeholders in the project. Students employ project management software, such as Microsoft Project and SAP, as tools in the development of project plans.

Prerequisite(s): none

Corequisite(s):none

### MGT1216 Global Supply Chain Management 1

For many companies, the supply chain is an essential part of their corporate competitive strategy that is critical for success. Managing supply networks requires specific skill sets for sourcing and transportation. Students explore the value of efficient supply chain management as a competitive advantage and consider the major issues associated with transforming a supply chain. Topics related to the development of a network of suppliers, manufacturing, assembly, resource planning,

warehousing, material handling and distribution are examined through case studies and group discussion.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT1217 Financial and Management Accounting Foundations**

Understanding of financial and managerial accounting principles is key to the growth and continued existence of any business. Students build skills to organize, create, interpret and communicate important financial information to help improve an organization's internal procedures and processes. Students explore the fundamentals of accounting, as well as management accounting concepts and practices. The use of accounting information for decision-making, planning, controlling and performance measurement is emphasized. Topics include cost allocation, cost-volume-profit analysis, relevant costs and budgeting, balance sheet, and cash flow statement.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT1218 Inventory and Materials Management**

Inventory can be one of the most costly and difficult to manage elements of a business and yet is an essential requirement to meet customer demand. Students explore inventory management models to maintain a balance of inventory and assure high levels of customer service, while avoiding excessive inventory levels that can create losses. Students explore basic and complex management techniques to maintain control over the mix and quantity of inventory. Students examine different aspects of material management including inventory control, material requirements planning (MRP), receiving and warehousing. Through case studies and discussion, students apply the theories and concepts of materials management to determine the potential impact on business.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT1219 Global Procurement Management Principles**

Global procurement involves the coordination and integration of a highly complex sourcing strategies. Global sourcing offers an opportunity for organizations to find their resource requirements in an international marketplace. Students examine various aspects of the sourcing and procurement of goods and services within the context of the global supply chain. Students formulate and assess purchasing and supply management techniques and practices as a mechanism to increase competitive advantage.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT1220 Strategic Capacity Planning and Demand Management**

Demand forecasting and capacity analysis are key requirements for supply chain management. Students explore strategies to balance inventory levels to meet market needs and respond to changes in demand. Through case studies and data analytics, students apply quantitative methods such as break-even point analysis, bottleneck analysis, and expected monetary value.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT2100 Global Supply Chain Management 2**

The world has become a global marketplace. To remain competitive, companies must source from a variety of vendors, many of whom are located in a global supply chain. Students explore the business framework for assessing the nature and challenges of operating global supply chains. Focus is on the primary activities of global supply chains, distribution and inventory management, and the supporting activities of document management and procurement. Students explore

strategies and resources to manage international suppliers and transportation intermediaries in the global marketplace. Through case studies, students use tools and apply strategic plans for global supply chain operations.

Prerequisite(s): MGT1216  
Corerequisite(s):none

### **MGT2119 Global Logistics Management**

Global logistics management refers to the control of the movement of products and associated costs ensuring an uninterrupted flow of products in the global environment. Students examine logistics management involving international vendors, customers and distribution centres to identify and leverage opportunities to maximize productivity in a global economy. Through case studies, students investigate the classic cost/service trade-offs that must be made by supply chain managers. Emphasis is on the use of strategies to add value to a company's supply chain by reducing costs, improving efficiency, effectiveness, and customer service.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT2144 Global Procurement Management Applications**

Global markets for goods and services attract companies seeking lower costs, faster time-to-market and access to a large pool of highly skilled practitioners. Students evaluate international procurement and purchasing strategies to address applied business cases. Emphasis is on the ethical application of supply chain management principles for the development and execution of international buying recommendations. Students apply an integrated approach from a management perspective for the development of purchasing and supply chain strategies that minimize risk and contribute to overall business objectives.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT2145 International Transportation and Trade**

Globalization depends on the ability to move goods and people across the world. An efficient global transport system plays a significant role in the global trade and economic development. Various modes of transportation including truck, rail, air and ocean are examined. Students explore strategic frameworks for transporting goods across international boundaries, ensuring that supply chain activities and transactions are compliant with relevant legal, regulatory and contractual obligations. In addition, students examine industry and organization standards and policies for quality, health, safety, accountability, and social and environmental responsibility.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT2147 Continuous Improvement**

Continuous improvement is a systematic and ongoing effort to improve processes, services, or products through incremental changes to realize efficiencies and better quality. Students develop the practical knowledge to support continuous improvements in planning, monitoring, and quality. Topics include best practices for Total Quality Management (TQM), Six Sigma, and Value Stream Mapping. Students also practice innovative thinking to develop cost reduction ideas, to improve profitability of products and services in a global context while maintaining or improving quality and reliability.

Prerequisite(s): none  
Corerequisite(s):none

### **MGT2148 Business Analytics and Decision-Making Industry Project**

Analytics refers to the ways in which organizations use data to gain insights that lead to fact-based management to drive business decisions and actions. Students explore key areas of business

analytics such as reporting, visualization and prediction to help guide business decisions. Students use current analytics technologies to create reports, scorecards, and dashboards through guided exercises and case studies involving global companies. In addition, the Internet of Things (IoT) and Big Data are explored. Working with industry partners, students discuss a global supply chain related problem, gather and analyze data and propose solutions and recommendations.

Prerequisite(s): MGT1201 and MGT1216 and MGT1218 and MGT1219 and MGT1220  
Corerequisite(s):none

### **WKT2302 Global Supply Chain Management Co-Op Work Term**

Co-op work terms provide an experiential opportunity, which is directly related to the field of study. This co-op work term follows second term studies. Students completing co-op have the ability to integrate their theoretical knowledge and work experience with career opportunities.

Prerequisite(s): MGT1201 and MGT1216 and MGT1217 and MGT1218 and MGT1219 and MGT1220 and MGT2100 and MGT2119 and MGT2144 and MGT2145 and MGT2147 and MGT2148  
Corerequisite(s):none