



## Certificate in Supply Chain Management and Logistics

### The Supply Chain Management and Logistics Profession Provides a Broad Range of Career Opportunities

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Today's highly competitive global marketplace makes it imperative that goods between supplier and consumer move in the most effective and efficient manner. Logistics and supply chain management are key elements in the ability of countries and companies to compete successfully in world markets.

Logistics covers the planning, operation and control of all activities concerned with the flow of raw materials, in-process inventory and finished goods across the supply chain. Transportation is often the most significant element in a logistics system but other activities such as inventory management, purchasing, warehousing, packaging, materials handling, order processing and customer service can also play important roles.

The demand for highly trained personnel in the supply chain management and logistics fields has never been greater. Exciting career opportunities exist within the supply chain management industry and the broader logistics field for new entrants and for managers and professionals who wish to advance into higher management level positions.

Careers in supply chain management and logistics are available in a wide range of activities including:

- Management and control of the logistics function among manufacturers, wholesalers and retailers for the distribution of goods and services
- Management of information systems and technology within supply chain networks
- Transportation services provided by railways, trucking companies, airlines and marine carriers
- Third party logistics including freight forwarding and brokering
- International trade and the global sourcing of products and services

**Please note that admission to the Certificate in Supply Chain Management and Logistics program is limited to the Fall and Winter semesters. There is no admission to the Summer semester. Please contact our advisors to learn how you can register as an independent student in the Summer semester.**

## How can a McGill Program prepare you for a Career in the Supply Chain Management and Logistics Profession

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The supply chain sector offers interesting, diverse work opportunities in several areas, such as production management, logistics management, management of information systems, warehousing, transportation, inventory/material control, purchasing and sales management. Employers range from manufacturers and retailers to transportation companies, third-party logistics firms, government agencies and consulting firms.

The program will provide students with a strong background in manufacturing supply chain environments and will lead them towards a Certified Production Inventory Management (CPIM) or Certified Supply Chain Professional (CSCP) designation offered by the Association for Operations Management (APICS), provided that the students pass the APICS examination requirements for the corresponding designation. Please note that students wishing to complete the requirements for APICS are strongly recommended to contact the association ([www.apicsmontreal.org](http://www.apicsmontreal.org)), as soon as possible, to obtain additional information on the exam and professional designation requirements.

The program will also provide students with a strong background in companies' supply chain, distribution and logistics functions and will lead them towards a Canadian Institute of Traffic and Transportation (CITT) designation provided that CITT's other requirements are satisfied.

After graduating from the "Certificate in Supply Chain Management and Logistics" program, students who are interested to obtain the CITT-Certified Logistics Professional (CCLP) designation should contact CITT ([www.citt.ca](http://www.citt.ca)) immediately, and also would need to complete the following five courses:

Three required courses offered by CITT:

- Transportation Systems
- Logistics Processes
- Integrated Logistics

Two complementary courses to be chosen from the following courses offered by McGill School of Continuing Studies:

- BUSA 364 Business Law 1
- CACC 220 Accounting Concepts for Managers
- CCOM 205 Communication in Management 1
- CFIN 300 Fundamentals of Financial Markets and Institutions
- CMRK 200 Fundamentals of Marketing
- MGCR 222 Introduction to Organizational Behaviour
- MGCR 352 Marketing Management 1
- MGCR 423 Strategic Management

## The Program

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The Certificate in Supply Chain Management and Logistics is a 30 credit program which consists of one co-requisite course and ten required courses\*.

**Note:** Co-requisite courses are not included in the total credit requirement for the program.

All courses are 3 credits unless otherwise stated.

The certificate's program requirements are:

### Co-requisite:

CMSC 000 Foundations of Mathematics (or the Exemption by Examination Test<sup>1</sup>)

### 10 Required courses (30 credits):

CTPT 200	Introduction to Supply Chain Management
CTPT 201	Sourcing
CTPT 202	Production and Inventory Planning and Control 1
CTPT 206	Transportation Management and Economics
CTPT 207	Transportation Law and Policy
CTPT 208	Fundamentals of Logistics
CTPT 310	Production and Inventory Planning and Control 2
CTPT 311	Supply Chain Risk Management
CTPT 410	International Trade and Logistics
CTPT 430	Fundamentals of Integrated Business Systems

\* Classes in this program are delivered in a variety of formats. This may include in-class, off-campus and online components. Class schedules and attendance requirements may vary from one course to another. Courses can be taken in the Fall, Winter, Spring and Summer sessions. **Not all courses are offered every semester.**

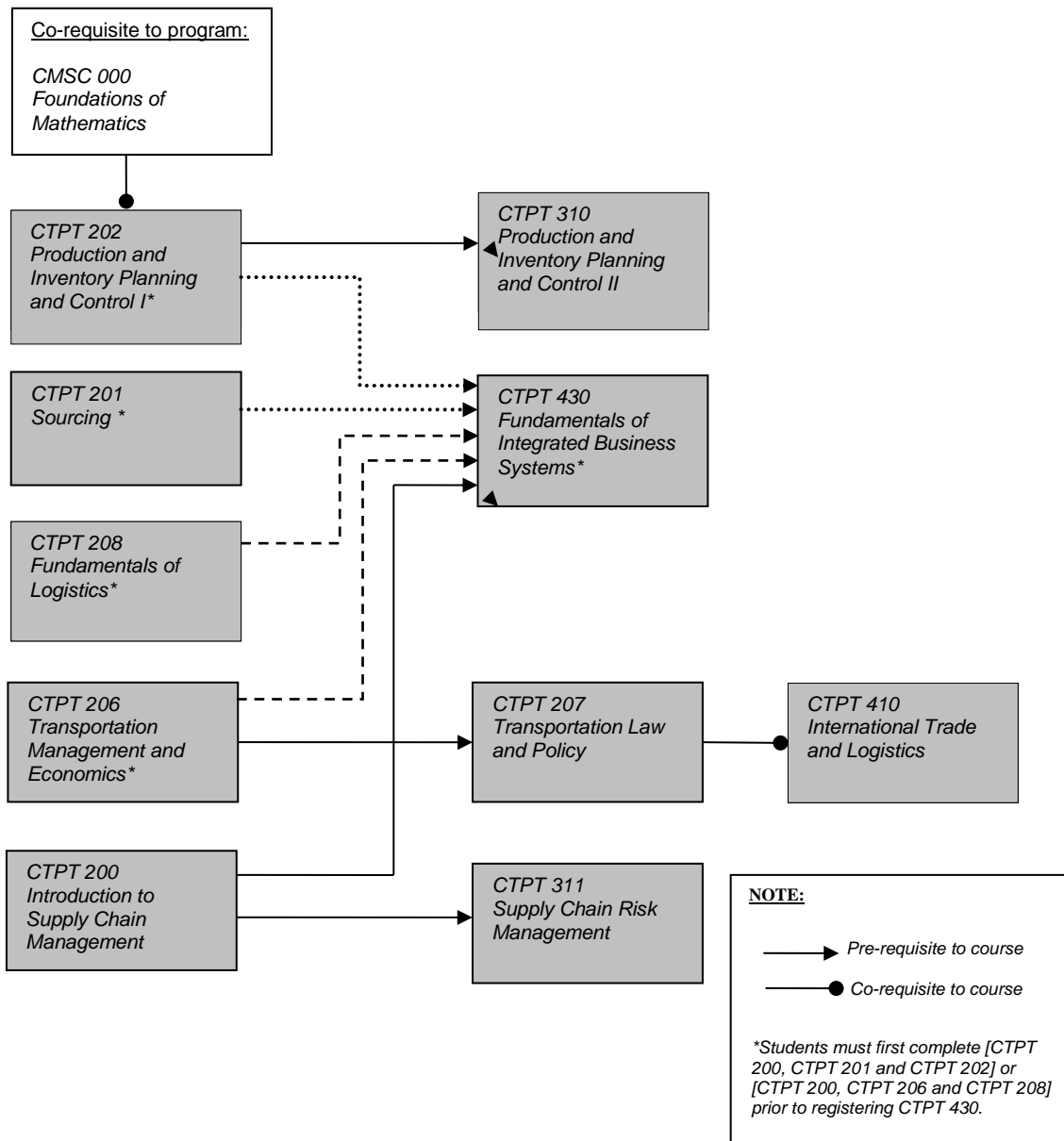
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<sup>1</sup> For more information on how to obtain course exemption by the means of a challenge exam, please consult the Exemption by Examination form available on our website at:

<http://www.mcgill.ca/continuingstudies/current-students/student-services-and-resources/forms>

# Course Sequence

## Certificate in Supply Chain Management and Logistics



## Course Descriptions

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### **CMSC 000 Foundations of Mathematics (12 CE Units)**

Pre-requisite:  
None

First-degree equations and applied word problems, polynomials, factoring, fractions, exponents, roots and radicals, inequalities, quadratic equations and functions, composite and inverse functions, arithmetic and geometric sequences and series.

*Please note that the minimum grade of 65 is required to successfully complete this course. Any grade below 65 is considered to be a failure.*

### **CTPT 200 Introduction to Supply Chain Management (3 credits)**

Pre-requisite:  
None

This course provides an overall perspective of various functions that exist within supply chains; macro processes and drivers as well as performance indicators along a supply chain are emphasized. Coordination issues are dealt with using a simulation game involving various supply chain stakeholders.

### **CTPT 201 Sourcing (3 credits)**

Pre-requisite:  
None

This course is a comprehensive review of sourcing, an important area of supply chain management. It covers four major components of sourcing: the in-house or outsource decisions, the supplier selection and evaluation processes, contract management and procurement processes. Case studies are used to illustrate implementation issues in sourcing.

### **CTPT 202 Production and Inventory Planning and Control 1 (3 credits)**

Co-requisite:  
CMSC 000 Foundations of Mathematics

This course emphasizes contemporary operational issues and techniques in manufacturing and service sectors. Topics include: production and service processes, lean manufacturing methods, total quality management, project management, supply and demand planning. Real-life examples and case studies are an integral part of the course.

### **CTPT 206 Transportation Management and Economics (3 credits)**

Pre-requisite:  
None

This course focuses on freight transportation, with emphasis on trucking, rail and marine modes including intermodal. Furthermore, it focuses on management of the transportation function from a carrier perspective, including a basic understanding of the structure and regulation of the transportation industry and analysis of specific case examples.

### **CTPT 207 Transportation Law and Policy (3 credits)**

Pre-requisite:  
CTPT 206

Evolution of federal transportation policy, including the primary laws and tribunals the government uses to control and structure the Canadian transportation industry in a global context: airlines, railways, marine and trucking; the Canada Transportation Act and the legal consequences of the National Transportation Policy and international transport policy.

**CTPT 208      Fundamentals of Logistics      (3 credits)**

Pre-requisite:  
None

This course addresses the infrastructure required to support logistics activities and the flow of goods and information, including: traffic and transportation, warehousing, materials handling, inventory concepts, Logistics Information Systems, performance indicators, customer service and order processing.

**CTPT 310      Production and Inventory Planning and Control 2      (3 credits)**

Pre-requisite:  
CTPT 202

This course focuses on the study of material flow processes by which products are created and delivered to customers. Topics include: aggregate planning, master scheduling, material requirements planning, capacity management, production activity control and inventory control. Computer-aided quantitative tools for decision-making and case analyses are used in the course.

**CTPT 311      Supply Chain Risk Management      (3 credits)**

Pre-requisite:  
CTPT 200

This course focuses on the use of available risk management techniques to deal with uncertainty in supply chains, covering issues such as identification of risks, analysis of risks, responding to risks including risk control and risk financing methods, operational and financial hedging and creating resilient supply chains.

**CTPT 410      International Trade and Logistics      (3 credits)**

Co-requisite:  
CTPT 207

Fundamentals required to successfully bring goods to market on a global scale, primarily focusing on logistics trade environment, obstacles and documentation required in international trade, with a focus on parties involved in import/export, legislative and liability, terms of trade, international cargo/cargo security and commercial documentation.

**CTPT 430      Fundamentals of Integrated Business Systems      (3 credits)**

Pre-requisites:  
[CTPT 200 and CTPT 201 and CTPT 202] or [CTPT 200 and CTPT 206 and CTPT 208]

This course examines supply chain information systems in the context of enterprise resource planning (ERP) systems with applications in the manufacturing, retailing and distribution services sectors. Core business processes and transactions pertaining to supply chain management are identified and discussed in terms of relevant ERP modules.

## **Admission Requirements**

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To be admitted to an Undergraduate Certificate in Supply Chain Management and Logistics:

- Applicants must hold a CEGEP diploma (DCS, DEC or equivalent) OR
- Applicants who do not have the normal academic background for admission but are 21 years of age and older may be admitted as mature students OR
- Applicants between 18 and 21 years of age who do not have a CEGEP diploma but have at least a high school leaving certificate may be accepted into a qualifying program (a copy of the certificate must be provided).

# Admission Procedures

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To Apply to the *Certificate in Supply Chain Management Online* Please Follow The Steps Listed Below:

Please follow the steps below:

**STEP 1:**

- Go to <http://www.mcgill.ca/continuingstudies/>  
Click on “Apply”  
Click on “Undergraduate Programs”

**STEP 2:**

**Verify** on the “**Apply for Admission to a Program**” page, the “Application Deadlines” for Canadian/Permanent Residents or International Students to ensure that you submit your application before the term deadline.

**STEP 3:**

- **Review your Admission Requirements:** Once you have checked your application against all the requirements, you will be ready to apply to the program.
- Before you proceed you will need:  
A valid **email address** and a **credit card** (Visa, MasterCard or American Express).

**STEP 4:**

- Once you are ready to apply online:  
Click on “**Click here now**” to bring you to the Application for Admission page.
  - Click on the red bold “**Apply Now**” on the Application for Admission page.  
(Do **not** apply through “uApply” link).
  - Fill in the login information on the “Admissions Login” page and the Biographical Information.
  - On the “Apply for Admission” page, fill in the information requested.  
NOTE: When asked: “What are you applying for at McGill”, click on “Continuing Studies”
  - Select the program you are applying to on the “Program Choice Selection” page.
  - Continue to fill in the remainder of the application. (All sections to be completed are indicated in the textbox on the left hand side of the screen).
- STEP 5:**
- Once you have applied online, you will receive a confirmation email providing you with a McGill ID number and a 6-character **PIN (Personal Identification Number)**.
  - You will need to use this information to **log into MINERVA** ([www.mcgill.ca/minerva](http://www.mcgill.ca/minerva)) (McGill’s web-based information system for students) so that you can upload documents required for admission and follow-up on your status of your application.

**STEP 6:**

- Please refer to the website for additional information.  
[www.mcgill.ca/continuingstudies](http://www.mcgill.ca/continuingstudies)



## Language Requirements

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The language of instruction for most courses and programs at McGill is English; however, students may submit any written work that is to be graded in English or French, except in cases where knowledge of the language is one of the objectives of the course. Applicants must demonstrate an adequate level of proficiency in English **prior to admission**, regardless of citizenship status or country of origin. McGill University has this language requirement in place to ensure that all students are provided with the opportunity to succeed in their chosen program. In all cases, the University reserves the right to require proof of English proficiency if it is deemed necessary. For additional information, please click on the link below.

<http://www.mcgill.ca/continuingstudies/current-students/academic-policies/language-policy>

## Exemption by Examination

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Students admitted to a Certificate, Graduate Certificate or Diploma program requiring a pre-requisite or co-requisite course must provide proof that they have taken an equivalent 3 credit course, at the appropriate level elsewhere or successfully pass the Exemption by Examination test. Otherwise the student must register for the course.

Please note that the Exemption by Examination test is not applicable to required or complementary course(s) within a program. You cannot take the Exemption by Examination test if you have already attempted the course (a grade of W is considered as have attempted the course). If you are unsuccessful in the Exemption by Examination test(s) you will not be permitted to repeat the test(s) and must instead enroll in the course(s) for which the particular test(s) was taken.

You must be admitted into a program or have applied to a program to be eligible to write the Exemption by Examination test. The test is optional. For more information on how to obtain a course exemption by means of a challenge exam, please consults the Exemption by Examination form available on our website at: <http://www.mcgill.ca/continuingstudies/prospective-students/apply/exemption-examination>

## Student Awards and Financial Aid

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Note: The amount and number of McGill University's School of Continuing Studies Bursaries, Scholarships, and Graduating Prizes issued varies from year to year, depending on funds received and donor specifications.

### McGill SCS Bursaries

For a list of McGill Bursaries, please consult the McGill School of Continuing Studies website by clicking on the link below.

<http://www.mcgill.ca/continuingstudies/current-students/fees/student-awards-and-financial-aid>

### McGill SCS Scholarships

For a list of McGill Scholarships, please consult the McGill School of Continuing Studies website by clicking on the link below.

<http://www.mcgill.ca/continuingstudies/current-students/fees/student-awards-and-financial-aid>

### McGill SCS Graduating Prizes

For a list of McGill SCS Graduating Prizes, please consult the McGill School of Continuing Studies website by clicking on the link below.

<http://www.mcgill.ca/continuingstudies/current-students/graduating-students/awards>