

Area of Interest: Business

Bachelor of Commerce (Supply Chain Management) (Honours) (Co-op)

Honours Degree

Program Code: 6066X03FWO

4 Years

Ottawa Campus

Our Program

A degree emphasizing process improvements - A career enriching business solutions.

With a focus on business and technology, the four-year Bachelor of Commerce (Supply Chain Management) (Honours) degree provides you with skills and knowledge for a rewarding career involving supply chain management.

Businesses are looking for skilled leaders who demonstrate the ability to create and execute plans to improve processes in all industry sectors.

This program recognizes the importance of the relationship between the supply chain and technology. Take courses developed to build a foundation of skills rooted in business, technology, communication and analytical thinking.

Learn the fundamental skills required to use SAP software that the supply chain management industry relies on. In the final term, work with an external business advisor to manage a project and create a report analyzing an issue in the industry.

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

Upon graduation, you may pursue a number of careers involving the supply chain. You may find employment in:

- procurement
- supplier relationship management
- forecasting and demand planning
- materials management and inventory planning
- distribution
- business analysis
- project management

SUCCESS FACTORS

This program is well-suited for students who:

- Are planners and enjoy putting their plans into action.
- Possess strong organizational, analytical and problem-solving skills.
- Show an interest in using computers and various technology applications.

- Are team-oriented and like to work with others.

Employment

Graduates have been successful in securing employment in any supply chain function or related technology and are creative developers and appliers of new technology and business processes. On the supply side, graduates may work in procurement, contract management and supplier relationship management. On the demand side, graduates may be employed in demand management, inventory planning, customer relationship management and distribution systems. Integral to an organization, graduates specialize in production and quality along with capacity/resource management. Related to the supply chain in general, graduates are business analysts, enterprise application consultants, project managers and logisticians.

eSCM professionals are responsible for creating and executing the plans of organizations and using business analysis to improve processes in all industry sectors. They work at the core of every business to ensure efficiency and effectiveness.

All people and all organizations form part of a supply chain. As these chains become more tightly woven, often through the use of technology, graduates provide the leadership required by industry and society.

Learning Outcomes

The graduate has reliably demonstrated the ability to:

- Apply manufacturing, service, and government sector operations processes and systems to streamline and optimize operations.
- Apply quantitative techniques to analyze supply chain data in order to support strategic and operational decisions.
- Interpret an organization's operational and financial performance metrics to identify supply chain strategic improvement opportunities.
- Analyze and utilize Enterprise Resource Planning (ERP) systems and other software applications in an integrated business context in order to improve supply chain processes and data flows.
- Communicate clear and concise research and technical information in oral, written, digital and visual form appropriate to external and internal stakeholders.
- Negotiate, select, develop and control organizational plans and schedules to meet stakeholder requirements on time and on budget.
- Use an ethical decision-making framework to identify and address ethical dilemmas encountered in business contexts.
- Support business objectives by collaboratively leveraging the interdependency of functional business units, including marketing, accounting, operations and human resources, with supply chain management.
- Research and analyze primary and secondary statistical data to support business decisions.
- 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
ACC4101	Financial Accounting	42.0
ECO4101	Microeconomics	42.0

ENL1100	Communications and Academic Writing	42.0
MGT4102	Business Fundamentals	42.0
MKT4101	Marketing	42.0
Level: 02	Courses	Hours
ACC4201	Managerial Accounting	42.0
ECO4201	Macroeconomics	42.0
ESC4201	Management Information Systems	42.0
HRM4201	Human Resource Management	42.0
PHI1000	Logic and Critical Thinking	56.0
Level: 03	Courses	Hours
ESC4300	Operations and Supply Chain Management	42.0
GEP1001	Cooperative Education and Job Readiness	18.0
LAW4300	Business Law	42.0
MGT4306	Business Analysis	42.0
QUA2000	Statistics	42.0
Elective: choose 1 Courses		Hours
BIO2200	Botany	56.0
ECO2000	Environmental Economics	42.0
FLS3101	French as a Second Language - Beginner 1	42.0
FLS3102	French as a Second Language - Beginner 2	42.0
GEO2300	Principles of Urban Planning	56.0
LAN3101	Spanish - Beginner 1	42.0
LAN3102	Spanish - Beginner 2	42.0
PHI2002	Ethical Decision Making	42.0
PSI2000	Navigating Canada's Political Landscape	56.0
PSY2100	Introductory Psychology	42.0
SCI2000	Environmental Science	42.0
SOC2000	Introduction to Sociology	56.0
SOC2001	Anti-Racism: Theory and Practice	42.0
Level: 04	Courses	Hours
ESC4400	Purchasing Management	42.0
ESC4402	ERP Business Configuration	42.0

FIN4601	Business Finance	42.0
MGT4403	Introduction to Project Management	42.0
PHI2000	Introduction to Research	42.0
Co-op: 01	Courses	Hours
ESC4900	Business SCM Co-Op Work Term I	
Level: 05	Courses	Hours
CST4301	Introduction to Database Management	42.0
ESC4500	Master Planning and Scheduling	42.0
ESC4503	Technology Integration Using SAP	42.0
ESC4504	Public Sector Procurement	42.0
ESC4506	Logistics	42.0
Co-op: 02	Courses	Hours
ESC4901	Business SCM Co-Op Work Term II	
Level: 06	Courses	Hours
ENL2025	Interpersonal Communication	42.0
ESC4603	Quality Management	42.0
ESC4608	ERP Integration I	42.0
MGT4601	Lean Principles	42.0
MGT4701	Advanced Business Statistics	42.0
Elective: choose 1	Courses	Hours
CUL4000	Global Citizenship	42.0
ENL4016	World Literature	42.0
ENL4100	Creative Writing	42.0
ENL4200	New Worlds and Alternative Realities: Speculative Fiction	42.0
PHI4000	Philosophy and Popular Culture	42.0
PHI4002	The Philosophy of Drugs	42.0
PHI4003	The Philosophy of Love and Sex	42.0
PHI4004	Technology, Society and the Environment	42.0
PHI4100	Survival in the Information Age: Risk and the Media	42.0
PHY4000	Black Holes, Big Bangs and the Cosmos	42.0
SOC4000	Criminology	42.0
SOC4001	Global Perspectives	42.0

Co-op: 03	Courses	Hours
ESC4902	Business Scm Co-Op Work Term III	0.0
Level: 07	Courses	Hours
ESC4708	ERP Integration II	42.0
ESC4710	Strategic Supply Chain Management	42.0
ESC4711	Business Intelligence and Data Warehousing Architecture	56.0
ESC4712	Business Decision Models	42.0
Elective: choose 1 Courses		Hours
CUL4000	Global Citizenship	42.0
ENL4016	World Literature	42.0
ENL4100	Creative Writing	42.0
ENL4200	New Worlds and Alternative Realities: Speculative Fiction	42.0
PHI4000	Philosophy and Popular Culture	42.0
PHI4002	The Philosophy of Drugs	42.0
PHI4003	The Philosophy of Love and Sex	42.0
PHI4004	Technology, Society and the Environment	42.0
PHI4100	Survival in the Information Age: Risk and the Media	42.0
PHY4000	Black Holes, Big Bangs and the Cosmos	42.0
SOC4000	Criminology	42.0
SOC4001	Global Perspectives	42.0
Level: 08	Courses	Hours
ESC4601	Project Management	42.0
ESC4800	Scm Degree Project	42.0
MGT4802	Enterprise Architecture	42.0
Elective: choose 1 Courses		Hours
CUL4000	Global Citizenship	42.0
ENL4016	World Literature	42.0
ENL4100	Creative Writing	42.0
ENL4200	New Worlds and Alternative Realities: Speculative Fiction	42.0
PHI4000	Philosophy and Popular Culture	42.0
PHI4002	The Philosophy of Drugs	42.0
PHI4003	The Philosophy of Love and Sex	42.0

PHI4004	Technology, Society and the Environment	42.0
PHI4100	Survival in the Information Age: Risk and the Media	42.0
PHY4000	Black Holes, Big Bangs and the Cosmos	42.0
SOC4000	Criminology	42.0
SOC4001	Global Perspectives	42.0

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 and supplies cost approximately \$800 per academic term and can be purchased from the campus store.
- For more information visit <https://www.algonquincollege.com/coursematerials>.
- Field trip expenses are approximately \$700.

Admission Requirements for the 2024/2025 Academic Year

College Eligibility

- Ontario Secondary School Diploma (OSSD) or equivalent.
- Mature students are applicants who have not achieved the Ontario Secondary School Diploma (OSSD) or its equivalent and who are at least 19 years of age on or before the commencement of the program in which they intend to enroll. Mature students applying for Degree programs satisfy College Eligibility by having demonstrated academic abilities equivalent to those of Ontario high school graduates, verified by successful completion of at least one full-time term at the post-secondary level (minimum five courses taken concurrently in an academic program of study).

Program Eligibility

- Six Grade 12 University (U) or university/college (M) courses with a minimum 70% average including:
- One Grade 12 U Mathematics course.
- Please note that mature students must meet the following subject-specific Program Eligibility requirements, either directly or through equivalencies:
- One Grade 12 U Mathematics course.

Admission Requirements for 2023/2024 Academic Year

College Eligibility

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Program Eligibility

- Six Grade 12 University (U) or university/college (M) courses with a minimum 70% average including:
- One Grade 12 U English course.
- One Grade 12 U Mathematics course.
- Please note that mature students must meet the following subject-specific Program Eligibility requirements, either directly or through equivalencies:

Application Information**BACHELOR OF COMMERCE (SUPPLY CHAIN MANAGEMENT)(HONOURS)(CO-OP)**
Program Code 6066X03FWO

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

Algonquin College has been granted consent by the Minister of Colleges and Universities to offer this applied degree for a seven-year term starting March 21, 2022. The College shall ensure that all students admitted to the above-named program during the period of consent have the opportunity to complete the program within a reasonable timeframe.

CO-OP INFORMATION:

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>.

Successful completion of all courses, including mandatory cooperative education (Co-op) Work Terms, is a requirement for graduation.

DEGREE ELECTIVE INFORMATION:

Students may choose from a variety of breadth courses. Courses from a range of disciplines are offered within the humanities, social sciences, sciences, global cultures and mathematics. Elective offerings vary from semester to semester.

Fall Term Winter Term Summer Term Year 1 Academic One Academic Two Free Year 2 Academic Three Academic Four Co-op Year 3 Academic Five Co-op Academic Six Year 4 Co-op Academic Seven Academic Eight

TRANSFER CREDIT RECOGNITION:

Applicants with degrees or degree-level courses from Canadian institutions empowered to award degrees and from other degree-granting institutions recognized by the Ontario Ministry of Colleges and Universities (MCU) are assessed on a case-by-case basis. To receive a course credit, a minimum grade of C- (60-62%) is required. Official transcripts and course descriptions/outlines must be presented with the application for credit recognition. Applicants with degrees or degree level courses from countries other than Canada or from postsecondary institutions not recognized by the MCU must have their degrees evaluated by a recognized Canadian public or private institution that specializes in the evaluation of international degree programs.

ADVANCED STANDING:

Graduates of a recognized Business Administration - Supply Chain and Operations Management Ontario College Advanced Diploma, Business Administration Ontario College Advanced Diploma, Business Ontario College Diploma, and Business Fundamentals Ontario College Certificate programs are eligible to apply to customized pathway programs reducing program duration.

Graduates of other related Ontario College Diploma or Ontario College Advanced Diploma programs may be eligible for advanced standing into the degree program. Please visit the degree program listing or speak to the Program Coordinator for more information and to confirm eligibility.

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Contact Information

Program Coordinator(s)

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

Course Descriptions

ACC4101 Financial Accounting

Generally accepted accounting principles are widely used as benchmarks throughout business. Students explore the role of financial accounting from a user perspective. Students also engage with the preparation, use and analysis of financial statements and concepts of accrual accounting, in the context of various forms of business organizations and internal control issues.

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

ACC4201 Managerial Accounting

Managerial accounting is the process of identifying, analyzing, recording and presenting financial information that is used for internal planning and control. Students explore the background, goals and methods of managerial accounting and its role in business planning, control and decision making. Students calculate product costing, variable costing, and product pricing, perform cost-volume-profit analysis, differential analysis, and prepare reports for budgeting and profit planning purposes.

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

BIO2200 Botany

Biologists with an interest in plant life may choose to specialize in botany. Beginning with the organic features of life, focusing on plants, students investigate the diversity of plant life and the basis for distinction amongst various species. With a deeper knowledge of plant structures and variability, students consider the impact of plants in the modern world, including human interactions such as food production, building materials and medicine.

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

CST4301 Introduction to Database Management

Databases are one of the foundations of information technology as they provide modern businesses an efficient means of organizing, processing and managing information. The principles of database management and their business applications are the central focus of this course. Students examine the framework of relational database and database management systems (DBMS). Students learn and practice design, modeling and implementation of database for business applications. The relational data model and the structure query language (SQL) are the core of the above applications. Students also learn and practice how data is stored and retrieved in a relational database on client/server architecture.

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

CUL4000 Global Citizenship

Informed citizens in today's world appreciate the meaning of civic life at the local, national and global level. Students reflect on and develop a personal awareness of the meaning of freedoms, rights and obligations in a diverse global community and consider the political, social and economic drivers that influence patterns of human behaviour and the health of the planet. Based on general principles of global citizenship, students look beyond national borders to assess personal responsibilities related to the health and well-being of the planet and inhabitants. Students critically evaluate information related to environmental and social health, equipped with attitudes and behaviours that foster global environmental and social responsibility.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

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Informed citizens in today's world appreciate the meaning of civic life at the local, national and global level. Students reflect on and develop a personal awareness of the meaning of freedoms,

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Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s):none

ECO2000 Environmental Economics

Issues pertaining to the environment have a major financial impact on society and government. Environmental economics examines the way human decisions affect the quality of the environment, how human values and institutions shape our demands for improvements in the quality and about designing effective public policies to bring about these improvements. Students examine problems and solutions relating to environmental policy analysis in the Canadian context.

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

ECO4101 Microeconomics

Microeconomics studies the behavior of individuals and the market to help businesses make decisions on the allocation of resources. Centering on the modern market economy as a system, students explore the principles of microeconomics using economic models to analyze consumer and firm behaviour. Students examine the concepts of resources allocation, demand and supply, market structure and market failure. In addition, students identify the impact of government regulation in markets on economic efficiency, as well as how decisions are made in the business environment.

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

ECO4201 Macroeconomics

Macroeconomics is a social science that examines the objectives and policies that affect the whole economy. Students explore the principles of macroeconomics using economic models to analyze the performance of the economy at an aggregate level. Through lectures and discussions, Students examine how the level of unemployment, inflation and national income are determined, investigate the impact that fiscal and monetary policies have on stabilizing the economy and analyze Canada's international economic relationships, including the international flows of goods and of capital.

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

ENL1100 Communications and Academic Writing

Effective communication is an integral component of success in the workplace and in lifelong learning. Students review communication theory and its connection to expository writing. Frequent writing exercises encourage the development of content that is coherent, well organized and correct. Students consider and use strategies to generate ideas, to collect and organize information, to acknowledge sources, to identify and develop a thesis and to adapt format, style and tone for different purposes and audiences.

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

ENL2025 Interpersonal Communication

Effectively communicating with others, both professionally and personally, is an art that requires conscious development. Students address the techniques related to interpersonal communication challenges in the diverse workplace. Focus is on communication barriers, verbal and non-verbal communication, listening, team work, and relational dynamics. Through role play, analysis, and case studies, students engage in simulated and authentic interpersonal communication situations.

Prerequisite(s): ENL1100
Corerequisite(s):none

ENL4016 World Literature

Exposure to broad sources of literature promotes an open-minded perspective on today's global society and encourages an appreciation of diversity and human differences. In World Literature, students explore key literary works from around the world and examine the socio-historical and cultural contexts in which authors wrote and set these texts. Students learn to identify common themes and apply literary and cultural theory to these works towards expanding critical thinking skills and developing an analytical vocabulary. Through seminar presentations, group discussions, debates, journaling, and creative writing, students grapple with literary representations of social, political, and cultural issues from around the world, gaining an appreciation of what it means to be responsible global citizens and possess the ability to listen to, question, and value diverse perspectives.

Prerequisite(s): ENL1100
Corerequisite(s):none

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Corerequisite(s):none

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perspectives.

Prerequisite(s): ENL1100

Corerequisite(s):none

ENL4100 Creative Writing

Whether for personal or public consumption, many people enjoy writing short fiction to express their creative energy while improving upon their overall writing abilities. Working with professional short stories as models, students examine the stylistic components that contribute to the excitement, atmosphere, and overall readability of short fiction. Students share their work and provide formal feedback on the work of others.

Prerequisite(s): ENL1100

Corerequisite(s):none

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Prerequisite(s): ENL1100

Corerequisite(s):none

ENL4200 New Worlds and Alternative Realities: Speculative Fiction

Speculative fiction gathers together all those works of fiction in which new worlds or alternative realities are envisioned. Within this category of prose, students have the opportunity to explore the various sub-genres that present readers with new ways of thinking about some of the issues that face society. Students also develop skills in critical analysis using a variety of approaches and methodologies from literary studies.

Prerequisite(s): none

Corerequisite(s):none

ENL4200 New Worlds and Alternative Realities: Speculative Fiction

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Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none

ESC4201 Management Information Systems

Information systems and their impact play a vital role for a successful business manager. Students focus on the study of Information Systems in organizations and cover topics, such as fundamental concepts of information systems, the technical foundations of information systems, as well as approaches to building and deploying and controlling information systems. Through lectures, self-directed learning, and in class activities, students present how Enterprise Systems (ES) support business processes through SAP with applied experience navigating and completing transactions.

Prerequisite(s): none

Corerequisite(s):none

ESC4300 Operations and Supply Chain Management

From a planning point of view, the need to balance demand and supply is paramount in today's business world. The basic concepts to manage a supply chain are covered from suppliers to customers. Students focus on production planning, master scheduling, MRP, capacity management, forecasting, purchasing, inventory management, and physical distribution, among other topics.

Prerequisite(s): none

Corerequisite(s):none

ESC4400 Purchasing Management

Organizations are recognizing the strategic importance of purchasing and its impact on competitiveness. Purchasing of goods and services by most organizations represents a significant level of spending and therefore involves organizational, tactical and operational strategy. Purchasing programs prepare people to direct how a firm buys, stores and sells supplies to other firms. Purchasing methods, models, interrelationships and technologies are covered. Students evaluate and solve problems while demonstrating their understanding of the procurement cycle as they adopt the roles of requestor, buyer, seller, billing agent, accounts payable clerk, and inventory manager and conducting the processes to complete the required process in SAP. Additional research into the Supply Chain Management Association and the Certified Professional Purchaser designation are also reviewed.

Prerequisite(s): none

Corerequisite(s):none

ESC4402 ERP Business Configuration

To manage complex business processes in today's global environment, firms need integrated software packages called Enterprise Systems (ES). ES systems include capabilities to support a wide variety of companies and industries. Students concentrate on a theoretical and practical introduction to ERP systems and address the fundamentals needed to integrate data across different business operations. Through labs and exercises, students will configure an ERP for a supply chain scenario and execute procurement, fulfillment and production process transactions in the ERP.

Prerequisite(s): none

Corerequisite(s):none

ESC4500 Master Planning and Scheduling

World-class organizations build sustainable competitive advantage by effectively planning and

successfully managing their operations and supply chains. Students explore strategic and business planning, enterprise resource planning (ERP); demand management, forecasting and replenishment; capacity planning, inventory management, Aggregate Planning, Material Requirements Planning (MRP); just-in-time production (JIT); Lean operations, and total quality management (TQM). Through workshops and hands on learning students produce Sales and Operations Plans (SOP), Master Production Schedules (MPS), Capacity Plans, Bills of Materials (BOM), and Materials Resource Plans (MRP) for manufacturing.

Prerequisite(s): ESC4300 and ESC4400 and MGT4401

Corerequisite(s):none

ESC4503 Technology Integration Using SAP

In the continuously evolving business world, there is a need for a solid framework for enterprise technology integration in business organizations, business processes and business tactical and strategic decision making. Students acquire the fundamental skills needed to start creating programs that will examine business reporting processes using SAP including NetWeaver, Business Warehouse (BW), Business Intelligence (BI) and Advanced Business Application Programming (ABAP). Through workshops and hands on learning, students build business report interfaces, write ABAP code to filter and drill down into business databases to support business decisions.

Prerequisite(s): CST4301 and CST4401

Corerequisite(s):none

ESC4504 Public Sector Procurement

In the public sector, federal, provincial and municipal governments have exceptional issues in relation to the public trust. Students explore the legislative, judicial and administrative responsibilities of government within a supply chain context and gain a basic understanding of the increasingly important role the government has with our economies to achieve value for money while maintaining compliance with policy and procedures. Students focus on the analysis and evaluation of the efficacy of public sector issues related to the supply chain, examining the roles and responsibilities of governments, explore the evolution of e-Government and explain the key processes in systematic purchasing including privatization or outsourcing in the private sector.

Prerequisite(s): ESC4400

Corerequisite(s):none

ESC4506 Logistics

Logistics is the management of the flow of goods from the point of origin to the point of consumption in order to meet customer requirements in the most efficient and effective manner. Logistics functions and activities represent some of the key drivers of supply chain performance that is essential to making any organization more competitive. The logistics functions that are examined in the course are: order management and customer service, demand and inventory management, transportation and warehousing management, channels of distribution, as well as logistics relationships and outsourcing.

Prerequisite(s): ESC4300 and MGT4401

Corerequisite(s):none

ESC4601 Project Management

Effective project management techniques help managers meet the needs of their business by ensuring their projects remain on time, within budget and under control. Students are exposed to theory through learning modules and referencing the Project Management Institute (PMI) "R" A Guide to the Project Management Body of Knowledge (PMBOK "R" Guide). Students also participate in lab-based simulations activities in Project Systems to develop competencies in the project management cycle from inception (project charter) to closing. Upon completion, students are eligible to apply to write the Certified Associate in Project Management (CAPM) "R" examination.

Prerequisite(s): none

Corerequisite(s):none

ESC4603 Quality Management

Quality issues and systems play a major role throughout the supply chain. Students examine quality management systems and techniques through both a Total Quality (TQ) as well as the Lean Six Sigma approach (LSS). LSS combines the reduction of waste and cycle time of Lean thinking with the reduction of variance of Six Sigma. Topics include concepts and approaches to total quality and LSS, implementation of Total Quality Management (TQM) and its associated tools, as well, the Malcolm Baldrige award criteria. Through lectures, examples and hands on exercises, students apply techniques in design, planning and organizing quality assessment, assurance and control in the context of purchasing and supply chain. In addition, students interpret and summarize the ISO quality standards including ISO 9000 and ISO 14000.

Prerequisite(s): none

Corerequisite(s):none

ESC4608 ERP Integration I

Business Process Integration is the synchronization of an organization's internal operations amongst its various departments and divisions. An enterprise resource planning (ERP) tool is used to enable seamless integration of an organizations processes and data. Through lectures, group discussions and learning activities in SAP, an ERP, students explore ERP fundamental business processes in the context of sales management, material planning, manufacturing execution, procurement, inventory management, customer service and financial and management accounting.

Prerequisite(s): ESC4402

Corerequisite(s):none

ESC4708 ERP Integration II

Business process integration is key to an organization's ability to becoming more efficient by coordinating the trigger and execution of complex business functions synchronously in various divisions and departments. Students review the sales order management, material planning, manufacturing execution, procurement, inventory management, customer service and financial and management accounting processes within the enterprise resource planning tool (ERP) SAP. In addition, students cover an introduction to life cycle data management, enterprise asset management, program and project management, human capital management, business intelligence and strategic enterprise management.

Prerequisite(s): ESC4608

Corerequisite(s):none

ESC4710 Strategic Supply Chain Management

The right supply chain strategy drives improved profits, reduced costs and better customer service from point of origin to point of consumption. Frameworks are introduced to design and analyze supply chain strategies that align with the competitive strategies of organizations. Students discuss supply chain drivers of performance, performance measurements, and the strategic profit model in detail. Furthermore, the production-distribution game is utilized to illustrate the concept of the bullwhip effect and the importance of coordination in a supply chain. Finally, the role of safety inventory is considered to manage uncertainty in supply chains.

Prerequisite(s): ESC4506

Corerequisite(s):none

ESC4711 Business Intelligence and Data Warehousing Architecture

Students learn the design and implementation of On Line Analytical Processing (OLAP) cubes and data mining models to support Business Intelligence (BI) solutions with a focus on SCM. Students examine concepts of business reporting by employing shared data sources, interactive sorting, drill-down, slicing and dicing capabilities. Students use ABAP and Crystal report as tools to leverage professional reporting by creating Business Intelligence dashboards, which enable the design of interactive reports and connection to a variety of data sources.

Prerequisite(s): ESC4503
Corerequisite(s):none

ESC4712 Business Decision Models

Business analysts and managers are continuously faced with situations in which they need to improve the performance of their organizations by making them more efficient and more productive. This drive to improve performance is true in any organization, whether it is a public, private, service or manufacturing firm. Given this reality, business decision models introduces scientific techniques that can be used to model business situations in order for managers and analysts to make better decisions. Some of the scientific techniques that are covered are linear, integer, and nonlinear programming, decision analysis, queueing analysis and simulation. Specific applications of these techniques are used to show how logistics and supply chain operations can be improved using spreadsheet applications. Case studies, as well as individual assessments, are introduced throughout for students to demonstrate their knowledge of business decision-making.

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

ESC4800 Scm Degree Project

Students integrate many of the program objectives into a single major deliverable including research, planning, and development of a supply chain management application or process. Students employ knowledge gained throughout the program and including the co-op work terms. The underlying framework for the project consists of communications, supply chain management, business analysis, project management, enterprise systems, lean principles and e-Business systems development. Students identify a current issue with the support of an external business advisor and create a final report recommending and implementing a solution. Students manage the project in a real-time collaborative environment with an academic and business advisor.

Prerequisite(s): ESC4601 and ESC4710
Corerequisite(s):none

ESC4900 Business SCM Co-Op Work Term I

Co-op provides an experiential opportunity which is directly related to the field of study. After completing the fourth academic term, students experience supply chain management and related e-business technology through their co-op work term. The first work term centres on attaining entry-level positions that immerse students in a variety of supply chain activities allowing them to apply learned concepts and principles. Students returning from the first co-op work term contribute new ideas to their program of study. Although centred with public and private institutions located in Eastern Ontario, co-op employment opportunities are sought throughout Canada and abroad.

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

ESC4901 Business SCM Co-Op Work Term II

Co-op provides an experiential opportunity which is directly related to the field of study. The second work term centres on an expanded role with a higher level of responsibilities in the workplace. Students returning from co-op work term two contribute expanded knowledge and abilities to their program of study. Although centered with public and private institutions located in Eastern Ontario, co-op employment opportunities are sought throughout Canada and abroad.

Prerequisite(s): ESC4900
Corerequisite(s):none

ESC4902 Business Scm Co-Op Work Term III

Co-op provides an experiential opportunity which is directly related to the field of study. The third work term centres on the opportunity to develop and implement improved methodologies.

Students returning from co-op work term three have the ability to integrate their program of study to career opportunities. Although centered with public and private institutions located in Eastern Ontario, co-op employment opportunities are sought throughout Canada and abroad.

Prerequisite(s): ESC4901
Corerequisite(s):none

FIN4601 Business Finance

Business Financial accounting provides the language, concepts, and techniques for analysing and solving financial problems faced by businesses. Topics include understanding business organizations, taxation, financial statements and cash flow analysis, financial forecasting and planning, time value of money, valuation of stocks and bonds, capital budgeting, efficient market theory and risk/return analysis.

Prerequisite(s): ACC4101
Corerequisite(s):none

FLS3101 French as a Second Language - Beginner 1

The French language is an asset when communicating in the workplace. Students with no prior knowledge of French acquire basic forms and structures to interact and communicate in a simple way with French speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when French is used in the workplace.

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

FLS3102 French as a Second Language - Beginner 2

The workplace benefits from having professionals with knowledge of the French language. Students with basic knowledge of French gain more control over forms and structures to interact and communicate in a simple way with French speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of French in the workplace.

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

GEO2300 Principles of Urban Planning

Increasingly cities and communities are feeling the pressure of expansion, and people from all walks of life feel disconnected from the processes, procedures, and decisions that are affecting everyday life. Students consider urban transformation with a focus on practicing sustainability by exploring innovations in land use, transportation, resource planning and economic development, resulting in employment opportunities, as well as healthy and vibrant cities. Students use local and regional activities as a starting point for developing a knowledge base for future social and community involvement. Research projects and assignments encourage students to identify the gaps between theoretical approaches to urban planning and the practical applications as evidenced in their local surroundings.

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

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

Corerequisite(s):none

HRM4201 Human Resource Management

Human capital is a critical organizational resource contributing to organizational agility, goal attainment and ultimate viability through progressive human resources management. Students explore all the human resources management specializations, including the role of human resources within organizational and strategic contexts, human resources planning, employee recruitment and selection, training and development, performance assessment, compensation and benefits, employee relations and labour relations. Furthermore, students investigate occupational health and safety, international human resources and relevant legislative frameworks.

Prerequisite(s): none

Corerequisite(s):none

LAN3101 Spanish - Beginner 1

The Spanish language is an asset when communicating in the workplace. Students with no prior knowledge of Spanish acquire basic forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples support students to gain basic oral expression and comprehension using simple phrases that develop vocabulary, pronunciation, and comprehension. Students begin to appreciate cultural and linguistic differences when Spanish is used in the workplace.

Prerequisite(s): none

Corerequisite(s):none

LAN3102 Spanish - Beginner 2

The workplace benefits from having professionals with knowledge of the Spanish language. Students with basic knowledge of Spanish gain more control over forms and structures to interact and communicate in a simple way with Spanish speakers. Class instruction and practice, repeated feedback, and exposure to a variety of language samples provide students with opportunities to enhance their basic oral expression and comprehension using simple phrases that further develop vocabulary, pronunciation, and comprehension. Students deepen their knowledge of cultural and linguistic differences of Spanish in the workplace.

Prerequisite(s): none

Corerequisite(s):none

LAW4300 Business Law

Businesses operate within a complex legal environment. Although some people may be unaware of the significance of the rule of law, it nevertheless pervades society generally, and the business world more specifically. To appreciate the operation of a functional legal system in the business arena, students explore the jurisdiction, scope and fundamental principles in the various interrelated legal sub-fields, including contracts, torts and human rights. Students also compare the Quebec civil legal system with the British common law system in the other Canadian jurisdictions. Using legal arguments and methodologies, students explore the sometimes conflicting principles of ethics, law and justice.

Prerequisite(s): none

Corerequisite(s):none

MGT4102 Business Fundamentals

In today's growing global economy, organizations are facing many new, diverse and competing challenges that have significant impact on their organizations. Students discover the essential management concepts of planning, organizing, leading and controlling. Other topics include human resources, strategy, decision making, ethics and social responsibility as well as organizational culture and change. Students apply various theoretical frameworks utilizing tools including case methodology, terms and discussions.

Prerequisite(s): none

Corerequisite(s):none

MGT4306 Business Analysis

Business Analysis is a methodology for enabling change in an organizational context through the identification of business needs and recommending solutions to improve business processes. Focus is on business requirements development and requirements management using various modeling techniques such as Business Analysis Body of Knowledge (BABOK). Students examine requirements analysis, cost benefit analysis and value engineering to determine why and how to solicit, analyze, validate and document business requirements or issues. Students use modeling concepts to prepare a business case and to explore the roles and responsibilities of the business analyst. Using case studies, students determine business requirements in the context of users and clients, model the requirements and provide implementation solutions. Students also acquire advanced skills of business modeling using industry standards, tools and notations.

Prerequisite(s): none

Corerequisite(s):none

MGT4403 Introduction to Project Management

A thorough introduction to modern project management is provided, guiding students through the fundamental tools and behavioural skills needed to successfully launch, lead and realize benefits from projects in organizations. Students learn the skills necessary to manage teams, schedules, risks, budgets, scope and stakeholders to produce desired outcomes. Through the use of case studies, individual and group assignments students, analyze how organizations use projects as catalysts for change in order to maintain a leading edge in business. Case studies exemplify standards and best practices used in the profession. Students learn how to navigate through the project life-cycle and how to manage resources within the project team framework: special attention is given to accountability and critical success factors required to overcome resistance to change.

Prerequisite(s): none

Corerequisite(s):none

MGT4601 Lean Principles

All organizations have waste embedded in their business processes. Lean Principles help businesses to 'see' that 'waste' and to eliminate that 'waste' the 'right' way. Lean is a new way of thinking based on the Toyota Production System (TPS). Students are challenged to evaluate processes using a value stream map to identify opportunities for improvement and generate unique solutions to problems within an organization. Students apply tools and techniques such as project management, data analysis, problem solving and logical thinking to a real world SCM situation and take a lead role in helping the organization to become more lean and flexible to customers' changing needs.

Prerequisite(s): none

Corerequisite(s):none

MGT4701 Advanced Business Statistics

With the unprecedented amount of data available, business analytics has become increasingly important in delivering value to businesses and changed the way organizations make decisions and run their operations. Building on the foundations of statistics, the areas of focus are design of experiments, analysis of variance, correlation, regression analysis, decision theory and time series forecasting.

Prerequisite(s): MGT4401 or QUA2000

Corerequisite(s):none

MGT4802 Enterprise Architecture

An architectural approach is essential for an enterprise to be effective. Possessing experience in the application of enterprise architecture is a highly prized skill set in business planning. Students examine a number of enterprise architecture frameworks and methodologies to acquire a complete enterprise perspective. Students analyze the concepts of enterprise architecture in the areas of enterprise functions, capabilities, processes and initiatives. Through the use of case studies, students examine existing business scenarios, identify opportunities for improvement and apply industry standards and best practices when making recommendations. Students also acquire advanced skills of business modeling using industry standards, tools and notations.

Prerequisite(s): none

Corerequisite(s):none

MKT4101 Marketing

Consumers and business professionals are continuously influenced by marketing. Students obtain an overview of the marketing function and its relationship with other business operations. Students analyze fundamental marketing concepts, including strategic product planning and analysis, buyer behavior, trends in retailing, wholesaling, web marketing, market segmentation, target marketing and market research. Students conduct industry analysis and environmental scans and examine the marketing mix in detail consisting of product, price, promotion and distribution channels. Discussions and activities address the needs of organizations in the private and public sectors, as well as not-for-profit organizations.

Prerequisite(s): none

Corerequisite(s):none

PHI1000 Logic and Critical Thinking

Logic and critical-thinking skills play an important role in both daily life and ongoing academic studies. As foundational skills, they support both the development and assessment of ideas, concepts and courses of action that are presented on a daily basis. Approaching the subject from both a practical and theoretical perspective, students hone their skills in analysis, argumentation, reasoning and persuasion. A range of topics and thinkers provide material with which students can exercise and apply their skills.

Prerequisite(s): none

Corerequisite(s):none

PHI2000 Introduction to Research

Academic research requires students to possess a fundamental knowledge of accepted methodologies and practices. An overview of the research process and tools prepares students to engage in scholarly work. Emphasis is on evaluation, selection and documentation of primary and secondary sources, as well as the development of a research project.

Prerequisite(s): ENL1100 and PHI1000

Corerequisite(s):none

PHI2002 Ethical Decision Making

To avoid potential prosecution, companies and their employees are well-advised to engage in ethical decision-making practices in all business situations. Students examine ethical concepts and principles, compare a variety of ethical decision-making models and utilize these principles and models to make ethically sound decisions in a variety of contexts. Students also design a code of ethics, practice making ethically-based decisions and develop the analytical skills required to recognize, evaluate and resolve ethical dilemmas in the workplace.

Prerequisite(s): PHI1000

Corerequisite(s):none

PHI4000 Philosophy and Popular Culture

Many facets of today's popular culture engage, directly or indirectly, with the concerns of a variety of philosophical traditions. Drawing on a number of examples, students explore both the way popular culture permeates and spreads through society and the way it interprets and presents philosophical questions. Students develop skills and techniques for assessing the soundness and validity of thought experiments.

Prerequisite(s): PHI1000

Corerequisite(s):none

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Prerequisite(s): PHI1000

Corerequisite(s):none

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Prerequisite(s): PHI1000

Corerequisite(s):none

PHI4002 The Philosophy of Drugs

Drugs are everywhere: professionals prescribe them to us to make us "better"; we take them recreationally; we give them to our children, pets and other loved ones; we buy them on the streets and in grocery stores. What are "drugs"? Why are some drugs legal and others not? How do drugs get to market? What ethical issues are relevant in a global drug industry? Are current intellectual property regimes appropriate if the goal of drug research is to promote benefits to society? Students critically examine these, and other, questions through the lens of historical and contemporary ethical, philosophical and legal theories and arguments. Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none

PHI4003 The Philosophy of Love and Sex

Love and sex are central to the human condition, and have been topics of academic inquiry and controversy throughout history. Various practices surrounding love and sex are celebrated in Western culture, such as monogamy and marriage, while other practices, such as polygamy and pedophilia, are condemned. Why is this? Students critically explore these and other issues surrounding love and sex using examples from popular music, movies and literature, framing those issues with the help of historical and contemporary philosophical theories and arguments. Students engage in various peer-oriented learning activities throughout the course.

Prerequisite(s): none

Corerequisite(s):none

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Prerequisite(s): none

Corerequisite(s):none

PHI4004 Technology, Society and the Environment

Environmental issues have come to occupy a central place in the marketplace, politics, policy, and society at large. Owing largely to the many environmental consequences that have accompanied industrialization, we humans have been forced to rethink the complex relationship between technology, society and the environment. Students investigate philosophical concepts and theories surrounding technology, society and the environment including: the "naturalness" of technology, sustainability and animal rights. Students critically examine course material by focusing on questions such as: What is nature, and what role do/should humans occupy in it? What do we owe non-human organisms? What do we owe future generations? Students engage in various peer-oriented learning activities throughout the course.

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

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Corerequisite(s):none

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

PHI4100 Survival in the Information Age: Risk and the Media

On an almost daily basis, the media, through its various outlets - television, radio, web sites, RSS, and podcasts - reports on issues that address our wellbeing. Through discussions, readings, and assignments, students enhance their ability to interpret and question information presented by the media by better understanding the inherent risks. Issues like alternative medicine (i.e. vaccinations) and socio-legal issues (i.e. bullying, hacking, surveillance, privacy) provide grounds for students to use principles from the social science as a means to think critically about real and perceived risks in daily life.

Prerequisite(s): PHI1000
Corerequisite(s):none

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Prerequisite(s): PHI1000
Corerequisite(s):none

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Prerequisite(s): PHI1000
Corerequisite(s):none

PHY4000 Black Holes, Big Bangs and the Cosmos

The dynamic and exciting field of Cosmology outlines our current understanding of the Universe from its start, at the so-called Big Bang, through the ensuing 13 plus billion years to the present and beyond. Students learn how to discuss our present understanding of the three phases of the Universe as well as its five part make up, with matter making up only 4% of the whole. Students explain our knowledge of the various phases of evolution of the Cosmos and also the latest theories and experiments that are trying to address our uncertainties. Throughout the course, students evaluate and debate many of today's ideas and concepts revolving around cosmology.

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

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

PSI2000 Navigating Canada's Political Landscape

A developed knowledge of government and politics is key to an effective participation in public life. Drawing on current events, students explore the societal, cultural and constitutional context along with the major political parties and institutions that shape the Canadian political landscape. Students develop skills and techniques that allow them to position politicians, parties, and policies, past and present, on the spectrum of political ideology and Canadian political traditions. Working together and individually, students analyze issues from the perspective of various political approaches.

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

PSY2100 Introductory Psychology

With its applications to behaviour and personality, psychology extends its reach into many aspects of our personal lives. The broad applications of this social science in both an applied and theoretical context are premised on a number of fundamental principles. Students explore historical breakthroughs that define the current boundaries of the discipline and interact with a number of the foundational concepts that resonate throughout daily life and popular culture. Students develop an introductory knowledge in the various schools of thought within the discipline.

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

QUA2000 Statistics

Students explore fundamental statistical concepts and use statistical software to summarize, analyze and present both descriptive and inferential statistics. Topics include central tendency, variation, probability, central limit theorem, sampling, estimation, hypothesis testing and simple regression and correlation. These theoretical concepts are explained through practical examples from various sectors. Students develop the required background for further study related to research.

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

SCI2000 Environmental Science

Environmental science is an interdisciplinary study of how the earth works, human interaction with the earth and how to address the existing environmental problems. Students explore natural capital and the degradation. Students engage in case studies, critical thinking and analysis of alternatives in exploring solutions and trade-offs in trying to address degradation.

Prerequisite(s): ENL1100 and PHI1000
Corerequisite(s): none

SOC2000 Introduction to Sociology

When working with individuals and groups it is important to understand both the background and influences present. Students develop a familiarity with sociological theories and methodological approaches used to study individual and group behaviours. Students also examine variables that include culture, social class, race, and gender and how these variables may impact work with diverse individuals and groups.

Prerequisite(s): ENL1100
Corerequisite(s): none

SOC2001 Anti-Racism: Theory and Practice

Anti-racism is the practice of identifying, challenging, and changing the values, structures, and behaviours that perpetuate systemic racism. Students explore concepts of anti-oppressive practice, anti-racist pedagogy, diversity, and inclusion at the personal, societal, and institutional levels. Students develop an understanding of historical and present-day groups and figures that challenge oppressive structures in Canadian society. Through various learning activities and discussion boards, students will develop the necessary knowledge, attitude, and skills to become an authentic ally within society.

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

SOC4000 Criminology

The interdisciplinary study of social science examining the individual and social aspects of crime is known as criminology. Students work through an introduction to the social science perspective on crime. Presentations, discussions, and assignments allow students to investigate the various theoretical positions related to crime and criminal behaviour. Working forward from the types and definitions of crime, students trace some of the links between government policy and the impacts

of these policies on both society and the individual.

Prerequisite(s): SOC2000
Corerequisite(s):none

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Prerequisite(s): SOC2000
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Prerequisite(s): SOC2000
Corerequisite(s):none

SOC4001 Global Perspectives

Sociology, through its exploration of the organization of society and the connections between people and their surroundings, provides new ways of looking at the world. Using fundamental knowledge in the field of sociology, students analyze globalization and its impact on Canadian society. Students take opposing views to debate the opportunities and challenges that come with globalization.

Prerequisite(s): SOC2000
Corerequisite(s):none

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Prerequisite(s): SOC2000
Corerequisite(s):none

SOC4001 Global Perspectives

Sociology, through its exploration of the organization of society and the connections between people and their surroundings, provides new ways of looking at the world. Using fundamental knowledge in the field of sociology, students analyze globalization and its impact on Canadian society. Students take opposing views to debate the opportunities and challenges that come with globalization.

Prerequisite(s): SOC2000
Corerequisite(s):none