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ACCOUNTING

Whether you want to learn the fundamentals of accounting, progress to a more advanced level, earn a professional designation, or develop expertise in specialized business applications, the following accounting courses, along with the courses listed under Finance and Financial Planning, will meet your needs.

Accounting

All CACC course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Accounting – Finance, Business Management, Entrepreneurship and Small Business, Facility Management, Financial Planning

★ Introductory Financial Accounting **CACC 100**

Antirequisite(s): CACC 110

The course is designed to give students a basic understanding of accounting for business decisions. Accounting is the language of business. The course will emphasize how transactions impact the accounting equation (Assets = Liabilities + Shareholders' Equity). Detailed journal entries will not be emphasized. Accounting 100 will emphasize the decision-makers or users. The course should be taken by students who don't want to become accountants, but want to gain a basic understanding of accounting.

39 Hours

Fee: \$820.11

★ Financial Accounting **CACC 110**

Designed to prepare students for an Accounting Minor, this course will introduce you to the interesting and challenging field of Financial Accounting. This is a language designed to capture, summarize, and communicate the economic facts about an organization in a set of financial statements and the related descriptive notes. The principles of accounting and reporting to various users that are external to the organization and emphasize the decision-makers or users. Financial statement content and the uses and limitations of this information.

39 Hours

Fee: \$820.11

☆ Core Concepts of Accounting **CACC 333**

Prerequisite(s): CACC 100 and CACC 406

This course is for students who have completed ACC 100 and ACC 406 and wish to major in either Accounting or Finance. It can also be taken by students wishing to minor in Accounting. This is a demanding course that should prepare you for Intermediate Accounting.

39 Hours

Fee: \$655.67

★ Introductory Management Accounting **CACC 406**

Prerequisite(s): CACC 100 or CACC 110;

Antirequisite(s): CACC 410

Designed for non-accounting majors, this course introduces the basic management accounting concepts to business students. Topics covered provide a good balance between the concepts and procedures used in the accumulation and use of data by management accountants to facilitate planning and decision-making. Cost behaviour and its implications for planning, reporting to management and control is stressed.

39 Hours

Fee: \$655.67

★ Management Accounting **CACC 410**

Prerequisite(s): CACC 110 or Direct Entry

Designed to prepare students for an Accounting Minor, this course introduces the basic management accounting concepts to business students. Topics covered provide a good balance between the concepts and procedures used in the accumulation and use of data by management accountants to facilitate planning and decision making. Cost behaviour and its implications for planning, reporting to management and control is stressed.

39 Hours

Fee: \$655.67

★ Intermediate Accounting I **CACC 414**

Prerequisite(s): CACC 410 or CACC 333 or Direct Entry

This course reviews and embellishes the financial reporting requirements as presented in generally accepted accounting principles (GAAP). The topics will include revenue recognition and the asset side of the balance sheet. Students should expect to use and expand on the application of all the generally accepted accounting principles and concepts covered in introductory financial and management accounting courses. To be successful in the course, students should be prepared to work independently outside the class sessions.

39 Hours

Fee: \$588.83

★ Accounting Cases and Concepts I **CACC 504**

Corequisite(s): CACC 514

This course begins with a conceptual review of accounting principles, and reviews issues studied in earlier courses such as revenue recognition, the treatment of research and development cost, and insolvency. Students are also introduced to accounting in the not-for-profit sector, and issues in international accounting. This course emphasizes the role of communication in the accounting profession. Critical thinking and problem solving skills are developed through extensive use of case analysis.

39 Hours

Fee: \$588.83

★ Accounting for Managers **CACC 507**

Prerequisite(s): CACC 414 or Direct Entry

This course is intended for students who intend on pursuing a career as a manager in the public or private sector. Managers make use of accounting information when making most operating and financial decisions. It is important that financial and management reporting issues be studied at an advanced level.

39 Hours

Fee: \$588.83

★ Intermediate Accounting II **CACC 514**

Prerequisite(s): CACC 414

This course continues from the ACC 414 coverage of the financial reporting requirements as presented in generally accepted accounting principles. The topics will include liabilities, share capital transactions, earnings per share calculations, adjustments, correction of errors, income taxes, leases, pensions and financial statement analysis. Students should expect to use and expand on the application of generally accepted accounting principles and concepts covered in ACC 414 and introductory financial and management accounting courses. To be successful in the course, students should be prepared to work independently outside the class sessions.

39 Hours

Fee: \$588.83

★ Auditing**CACC 521***Prerequisite(s): CACC 514*

An introduction to the auditing standards and procedures developed by the accounting profession. Topics covered include: auditing standards, the audit report, materiality, risk, gathering of evidence and sampling. The course is useful to the student who is interested in the profession of auditing or developing a manager's understanding of auditing.

39 Hours

Fee: \$588.83

★ Taxation for Managers and Financial Planners**CACC 522***Prerequisite(s): CACC 414 or Direct Entry*

Since taxation has an important effect on business decision-making in this course students will study the fundamental principles of the Canadian income tax laws and examine their effect on business decisions and financial planning. The tax treatment of various sources of income, as well as the legislation affecting small businesses will be included in the course. The student will develop decision making skills through numerous situational examples and case analysis.

39 Hours

Fee: \$588.83

★ Accounting for Small Business**CACC 607***Prerequisite(s): CACC 414 or Direct Entry*

This course is intended to broaden the student's depth of understanding of particular accounting issues required by small business such as payroll accounting, special employer tax and bank reporting requirements.

39 Hours

Fee: \$588.83

★ Internal Auditing**CACC 621***Prerequisite(s): CACC 514*

This course examines the role and practice of internal auditing in the Profit and Public Sectors with an emphasis on value for money auditing.

39 Hours

Fee: \$588.83

NEW**★ Accounting Theory****CACC 706***Prerequisite(s): CACC 504 and CACC 514*

This course studies the theoretical and practical issues encountered in contemporary accounting practice. Selected topics are compared with current industry uses and the CICA Handbook. The development of critical thinking and communications skills is stressed.

39 Hours

Fee: \$588.83

★ Canadian Business Taxation I**CACC 742***Prerequisite(s): CACC 514 and CACC 522*

A detailed examination of the federal income tax law concerning income of individuals from employment, business and property. The implementation of the law and its effects, and issues in tax planning and other practical matters are explored, as well as legal interpretations of the law, through examination of a wide variety of practical problems and cases. Related rules in the Goods and Services Tax Act are also examined. Students should have a knowledge of accounting and business law, and be prepared to spend a minimum of two hours outside of class for every hour in class. (Formerly first half of ACC 042.)

Note: If you are a full-time degree student, please contact the Accounting department at 416.979.5000, ext. 6735 or nicole.hillmer@ryerson.ca for more information.

39 Hours

Fee: \$588.83

NEW**★ Intermediate Cost and Management Accounting****CACC 801***Prerequisite(s): CACC 414 or Direct Entry*

This course will provide a comprehensive study of costing for decision making, planning and performance evaluation. Emphasis will be placed on cost allocation methods, capital budgeting and transfer pricing.

39 Hours

Fee: \$588.83

NEW**★ Advanced Auditing****CACC 821***Prerequisite(s): CACC 521*

This course expands on areas covered in an introductory auditing course. Topics include audit strategy, comprehensive auditing, professional judgment, small businesses and not-for-profit auditing. Current literature from professional journals will form an integral part of the material. The course is required for those individuals planning a career in external auditing.

39 Hours

Fee: \$588.83

★ Canadian Business Taxation II**CACC 842***Prerequisite(s): CACC 742*

A further examination of the federal income tax law, dealing with its implementation and effects on both large and small corporations, their shareholders, and their business and financial decisions. Practical tax planning issues are explored, as well as interpretations of the law, in a wide variety of problems and cases. Taxation of partnerships, trusts, and the Goods and Services Tax are also examined. (Formerly second half of ACC 042.)

Note: If you are a full-time degree student, please contact the Accounting department at 416.979.5000, ext. 6735 or nicole.hillmer@ryerson.ca for more information.

39 Hours

Fee: \$588.83

ARABIC

These courses are designed for non-native speakers and teach reading, writing, speaking, and listening in Modern Arabic. All students must take the Arabic Placement Test on the Department of Languages, Literatures, and Cultures website or attend one of our interview/placement assessment sessions.

☆ Introductory Arabic I

CARB 101

This course is designed to help students with no knowledge of Arabic to begin developing functional communication abilities in all four language skills in spoken and written Modern Standard Arabic. Using a variety of authentic materials, students will learn to create conversations based upon culturally authentic situations. By the end of this course, students will be able to read and write simple sentences and to talk about subjects related to family, studies, and social environment. (LL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$642.87

☆ Introductory Arabic II

CARB 201

The course, which focuses on the acquisition of complex grammatical structures, expanding vocabulary, and discourse skills, develops functional communication abilities in all four language skills in spoken and written Modern Standard Arabic. Topics will be presented using authentic materials. By the end of the course, students will be able to read, write, and translate longer passages in Arabic. Students will also be able to talk about subjects related to cultural environment, work, relationships, and general knowledge. (LL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$642.87

ARCHITECTURE

Creating environments that are beautiful and functional is a complex and exciting process. Whether you are interested in interior or exterior spaces, these courses can introduce you to the principles, practices, and skills that contribute to effective design.

Architectural Preservation and Conservation

This program is designed to provide architects, and those in related design fields, with the opportunity to gain the applied state-of-the-art knowledge and skills necessary to keep pace with developments in the construction industry. Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced, Sustainability Management and Enterprise Process Excellence

🔗 Architecture Preservation and Conservation Workshop

CKAR 600

An introductory level lecture/seminar course on architectural preservation and conservation theory, philosophy, history, and concepts. The aesthetic, managerial, and technological aspects of the preservation and conservation sub-sector of the architectural profession will be covered, as will future trends and issues.

39 Hours

Fee: \$789.25

🔗 Building Science for Architectural Preservation and Conservation

CKAR 601

An intermediate level course in building science examining the biological, chemical, and physical properties of the envelope and components of building structures as impacted by the internal and external environments. The proper material selection and methods of assembly of building envelope and components for durability, sustainability, and serviceability will also be investigated.

39 Hours

Fee: \$789.25

🔗 Management and Regulatory Framework

CKAR 604

An advanced level course on the project and construction management (sequencing, scheduling, estimating, etc.) of preservation and conservation projects. Governmental regulations (construction safety, heritage by-laws, etc.), non-governmental/cultural policies (ICOMOS, UNESCO, World Heritage Sites, etc.), and professional ethics/practices on architectural preservation and conservation will also be examined in detail.

39 Hours

Fee: \$789.25

🔗 Comprehensive Seminar/Project

CKAR 605

Prerequisite(s): CKAR 600 and (CKAR 601 or CKAR 602 or CKAR 604 or CKAR 610)

A thesis course. Students will be required to propose a preservation and conservation plan for an historical building or selected components of high complexity. The student will be required to assemble a thesis advisory group who will advise and monitor the progress of the student's work.

39 Hours

Fee: \$789.25

🌀 Architectural Preservation and Conservation Techniques **CKAR 610**

Prerequisite(s): CKAR 601

This is an advanced level course on archaic and contemporary materials and methods for preservation and conservation of building structures. Students will be taught the properties, decay mechanisms, and the maintenance and repairs of different building materials. The manufacturing, identification and methods of assembly of these materials will also be examined. Researching, inspecting, recording, and assessing the condition and quality of building structures will be taught. Students will also be taught historical research techniques; destructive and non-destructive building testing, investigation, and inspection techniques; manual, photographic, and computer-aided extant recording techniques; and building repair assessment techniques.

39 Hours Fee: \$789.25

Architecture

Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced, Facility Management, Sustainability Management and Enterprise Process Excellence

🌀 Architectural Studio - Fundamental **CKAR 103**

Prerequisite(s): CKAR 102 or CKAR 300

An introductory studio workshop in architectural design and space planning. Topics include spatial and functional planning, human-interface and environmental systems, and architectural representation and presentation.

Supplies to be purchased by student: T-square, set square, scale, instruments, pencils, paper. Allow \$80 for these supplies and texts - do not purchase until after the first session.

39 Hours Fee: \$789.25

🌀 Mechanical and Electrical Systems for Buildings **CKAR 201**

Prerequisite(s): CKAR 310 or CKAR 105

An intermediate course examining the fire-protection, lighting, plumbing, heating, ventilation, air-conditioning, electrical, and communications systems and services that are required for buildings in Canada. The applicable standards, codes (including Parts 6, 7, and 8 of the Ontario/National Building Codes) and regulations governing the design of these mechanical and electrical systems will also be examined.

39 Hours Fee: \$789.25

🌀 Architectural Studio - Intermediate **CKAR 202**

Prerequisite(s): CKAR 103

An intermediate workshop in architectural design. Topics include architectural design elements and principles, forms and spaces, circulation and procession, social and symbolic systems, and architectural representation and presentation.

Supplies to be purchased by student: T-square, set square, scale, instruments, pencils, paper. Allow \$80 for these supplies and texts - do not purchase until after first session.

39 Hours Fee: \$789.25

🌀 Specifications and Contractual Documents **CKAR 203**

Prerequisite(s): (CKAR 300 or CKAR 102) and (CKAR 310 or CKAR 105)

An intermediate course in technical specifications writing, the tendering process, contracts and construction contract forms, Canadian contractual laws, and contract administration. Students will be expected to complete a partial set of specifications.

Note: Prerequisite waived for students registered in the Architectural Preservation and Conservation certificate.

39 Hours Fee: \$789.25

🌀 Cost Estimating and Control **CKAR 204**

Prerequisite(s): (CKAR 300 or CKAR 102) and (CKAR 310 or CKAR 105)

An intermediate course in quantities surveying for cost estimation and control of construction works. Topics include measurement methods, standardized formats and forms, methods of estimations, and cost control and procedures. Students will be expected to complete a cost estimate of a small building.

Note: Prerequisite waived for students registered in the Architectural Preservation and Conservation certificate.

39 Hours Fee: \$789.25

🌀 Building Codes and Regulations **CKAR 205**

Prerequisite(s): CKAR 310 or CKAR 105

An advanced course on codes and regulations governing planning, design, and construction in Canada. Municipal planning by-laws, the Ontario/National Building Codes, standards, and other regulatory documents will be examined in detail. The application process in obtaining permits and approvals for development will also be examined. Students will be expected to complete a code analysis of a small building.

39 Hours Fee: \$789.25

🌀 Digital Graphics for Architecture and Design **CKAR 209**

An intermediate lecture/laboratory course on computer imaging, graphics and presentation techniques. Utilization of authoring software and hardware for data management, graphics design, and imaging (image capture, manipulation, and outputting).

39 Hours Fee: \$789.25

🌀 Toronto: An Architectural History **CKAR 210**

This course focuses on the architectural history of Toronto from its earliest settlement to the present day. A comprehensive overview of each stylistic period, its social-technical setting, and significant buildings will be presented. Field trips and guest lectures will enhance the students' understanding of the origins and related artifacts that make up the physical setting of one of the world's most dynamic cities.

39 Hours Fee: \$789.25

🌀 Computer-Aided Architectural Drawing **CKAR 215**

An introductory/intermediate lecture/laboratory course in architectural drafting and technical drawing utilizing AutoCAD (a computer-aided drafting system). Students will also be given an introduction to basic computer operations (MS Windows), and will be expected to complete a partial set of architectural working drawings.

39 Hours Fee: \$789.25

✦ Architectural Drawing

CKAR 300

This is a comprehensive course in architectural drawing and drafting which includes such topics as architectural representation and drawing and drafting styles and techniques. Students will learn perspective, isometric, and orthographic drafting as well as technical drafting. The course will include selected elements of designing process and its graphic components such as conceptual drawings, presentation drawings, design development, and details and technical drawings.

39 Hours

Fee: \$789.25

✦ Materials and Methods

CKAR 310

This course introduces the methods and materials of building construction with an examination of construction systems and components including: foundations, walls, floors, roofs, doors and windows, and finishes. Materials of construction are introduced and placed into the context of the interconnected systems that make up buildings.

39 Hours

Fee: \$789.25

✦ Sustainable Buildings

CKAR 500

Prerequisite(s): CKAR 103 and CKAR 310

The built environment has a substantial impact on the environment, specifically on energy and material resources. This overview course examines the sustainable development of buildings by examining how building process, materials, methods, components, and systems affect the environment and how designers such as architects and engineers have alternatives to affect a smaller environmental footprint. The course will include case studies and may include a field trip and/or guest speakers.

39 Hours

Fee: \$789.25

History of Architecture from Classical to Contemporary **CKAR 744**

This comprehensive and critical course focuses on the history of architectural ideas and built forms from classical to contemporary times, including a range of current issues such as globalization, digital technology, and sustainability. It will present the chronological panorama of changing styles and techniques as well as social, political, and intellectual forces affecting the architecture and design of each epoch, based on weekly visual presentations. Students will learn how to recognize and interpret styles, architectural details, and movements, and how to communicate about the history of architecture.

39 Hours

Fee: \$789.25

✦ Building Info Modelling (REVIT)

CKAR 785

This course is an introductory/intermediate course, training BIM users through the basic procedures of designing an integrated building model. Topics include project creation, navigation and display concepts, designing with components, working with levels, creating and editing walls, adding doors and windows, creating floor and roof objects, working with view properties, object styles, loading and modifying family components, adding dimensions and annotations, adding and modifying drawing sheets, and plotting procedures.

39 Hours

Fee: \$789.25

Digital Architecture

Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced

✦ Digital Architectural Modelling

CKDA 610

A lecture/laboratory course on creation of architectural objects and the different approaches to digital modelling. Students will learn the construction, creation, manipulation, and transformation of rudimentary and complex architectural forms in a tectonically plausible context.

39 Hours

Fee: \$789.25

✦ Digital Architectural Rendering

CKDA 611

An introductory lecture/laboratory course on the applications and rendering of architectural materials and textures. The second part of this course will be a design studio. Students will be required to design and document (modeled and rendered) a building, or an architectural component, of medium complexity entirely within the digital medium. This course is the first of two courses on computer rendering in digital architecture and design, and is focused primarily on architectural-objects creation.

39 Hours

Fee: \$789.25

ARTS AND CONTEMPORARY STUDIES

These courses give you the opportunity to develop your learning, research, ethical, and literacy competencies – important ingredients for success in any pursuit. They combine traditional education in the humanities with practical skills and theoretical approaches to deal with relevant societal issues. Arts and Contemporary Studies courses may be credited towards Ryerson University's full-time degree program, which stresses foundational skills and a broad liberal arts education.

Contemporary Studies

Related certificate(s): Social Sciences and Humanities Foundations

★ Ideas That Shape the World I

CACS 100

This course studies ideas shaping the contemporary world and arguments that invigorate and challenge our sense of what it means to live as an individual, citizen, and member of the complex, multifaceted, volatile global society. The focus is on these issues as they have arisen in a Canadian context; it studies the contribution of Canadian thinkers to global debates; and it challenges students to articulate their own responses to central issues of the contemporary experience.

39 Hours

Fee: \$620.24

☆ Introduction to the Humanities

CACS 103

In this course students learn to identify a humanistic perspective, and analyze how this perspective can infuse our understanding of the world around us. Students are also introduced to the various ways in which this perspective is applied in Arts and Contemporary Studies - in particular in the program's subject-based and interdisciplinary options - while gaining some of the academic skills relating to effective research, writing and expression that they will require to excel in a university setting.

39 Hours

Fee: \$595.84

★ Ideas That Shape the World II

CACS 200

This course examines the work of some seminal thinkers, writers, religious leaders, and artists of antiquity. Beginning with the ancients, the course traces the development of intellectual traditions up to the Renaissance. These traditions develop and explore ideas about the origins and structure of the physical world, human existence, the relationship of the individual to communities, the concepts of the state and politics, and the sacred.

39 Hours

Fee: \$646.77

☆ Senior Group Project

CACS 800

Prerequisite(s): Department consent

This capstone course brings students together for a collaborative project enabling application of various skills, competencies and knowledge acquired in the program. "Showcase" event(s), such as charrette, simulation, forum or conference, on a critical issue or area of engagement in contemporary society, will be planned, organized, marketed and presented by the students. The "showcase" event, highlighting what students have learned in the program, will be open to the public, including prospective employers.

39 Hours

Fee: \$639.34

BIOLOGY

Biology is the study of living organisms and systems, including tissues, cells, and the structure and function of macromolecules. These courses introduce you to the basic principles of biology, ecological and environmental issues, human biology, and microbiology. Pre-medicine and professional health career courses are taught.

★ Anatomy and Physiology

CBLG 10A/B

Corequisite(s): Corequisites for Collaborative Nursing only: NSE 11A, NSE 12A and NSE 13A

A systematic approach to the complexity of the human body. Lectures include integumentary system, defense mechanisms, cardiovascular, lymphatic and respiratory systems; exercise; the male and female reproductive systems; pregnancy; skeletal, muscular, nervous, endocrine, digestive and urinary systems; senses.

Note: Students must have taken Grade 12U Biology, OAC Biology, CBLG 90A/B, or CKBG 108 and CKBG 109, prior to taking this course.

78 Hours

Fee: \$1201.62

★ Biology I

CBLG 143

This course is an introduction to the cellular and molecular mechanisms in the cell. Topics include macromolecule structure and function, enzymes, cell membrane structure and function, cell cycle control, cell division, metabolism, and photosynthesis. Also included is an introduction to genetics and patterns of inheritance, gene expression and developmental biology. Laboratory exercises complement lectures.

Note: Attendance at labs is mandatory. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

58.5 Hours

Fee: \$900.32

★ Biology II

CBLG 144

Prerequisite(s): CBLG 143

This course is an introduction to evolution, diversity, and ecology. Topics include natural selection and the patterns of evolutionary change in allele frequencies and speciation. The course will introduce the diversity of living organisms resulting from evolutionary processes. The course will explore how these organisms interact with each other and their physical environment, and the feedback of these interactions on evolution. Laboratory exercises complement lectures.

Note: Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

58.5 Hours

Fee: \$900.32

★ Microbiology I

CBLG 151

Prerequisite(s): CBLG 143 and CBLG 144

This course introduces the student to the principles of microbiology. Topics include the history of microbiology, a survey of the different types of microorganisms, prokaryotic cell structure and function, microbial nutrition and growth, microbial metabolism and its applications, and bacterial genetics and gene expression. An introduction to bacterial gene expression will also be covered. The laboratory exercises complement the lectures and introduce the student to basic microbiological techniques and applications.

Note: Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

78 Hours

Fee: \$1192.07

☆ Biology of a Living City

CBLG 181

Antirequisite(s): CBLG 143, CBLG 144

This course will examine current selected topics in biology including cloning, today's epidemics, genetically modified foods and environmental issues. Students will be introduced to many fundamental principles of modern biology as well as the history and ethics pertaining to the topics. This course is open to all arts students and has no secondary school biology requirement. (Formerly SCI 181). BLG 181 is not available for credit to students who choose BLG 143 or BLG 144. (LL)

39 Hours

Fee: \$638.28

☆ Cell Biology

CBLG 311

Prerequisite(s): CBLG 143 and CBLG 144

This course will examine key concepts of cell structure and function. This includes membrane structure and function, membrane transport mechanisms of small molecules and ions, cytoplasmic organization, intracellular targeting and sorting of proteins, membrane trafficking, the cytoskeleton and nuclear organization. We will also examine various methods used to visualize and study cell structure and function.

39 Hours

Fee: \$628.69

☆ Biology Facts in Pop Media Sci-Fiction

CBLG 599

This course is an exploration of the real science and technology behind the science fiction portrayed in popular media (movies, television, internet and print). Topics may include: cloning of cells and organisms; DNA sequencing and genomics; forensics techniques used in real labs; how to analyze and understand statistics in health related news articles; the chemistry and physiology behind health foods and fads; the pros and cons of genetically modified organisms (GMOs); etc. Students will be able to choose and direct their studies of specific movies, episodes and articles. (UL)

39 Hours

Fee: \$628.69

☆ Social Factors in Drug Development

CBLG 699

Once a drug has been discovered, there are many factors that influence whether it is marketed. This course will explore the societal issues that affect pharmaceutical and biotech companies as they develop new compounds. After an introduction to the Canadian regulatory process, students will discuss topics such as laboratory animal welfare, ethics in clinical research, drug reimbursement and other pressures drug companies face to provide a drug or take it off the market. (UL)

39 Hours

Fee: \$628.69

Introduction to Biological Principles

CKBG 90A/B

This course is a two-term introduction to the basic principles of biology. In the first term, topics discussed include the scientific method, essential chemistry and biomolecules, cell structure and function, cellular respiration and photosynthesis, genetics and inheritance, evolution, and biological diversity. In the second term, topics discussed include phylogeny, animal and plant physiology, ecology, and environmental issues.

Note: Formerly CKBG 108 and CKBG 109.

An Academic Bridging Course that may be used to meet the Grade 12 U Biology requirement for Ryerson admission purposes. Please note that mature student applicants will be considered on an individual basis. Please contact Undergraduate Admissions and Recruitment for details.

78 Hours

Fee: \$752.91

❖ Human Body Health Tools

CKBG 100

This course examines scientific findings, cases, and tools that could help individuals manage future, sudden, serious problems that arise in the human body for themselves or significant others.

8 Hours

HST included

Fee: \$107.07

❖ The Science of Food Foundations

CKBG 110

Based on scientific evidence, this course examines the human body and healthy diets for adults in mid-life including fibre, protein, fat, and carbohydrate requirements.

8 Hours

HST included

Fee: \$107.07

❖ The Science of Supplements

CKBG 115

This course focuses on the science behind supplements for selected human body systems. Topics will include the needs of adults in mid-life for healthy hearts and lungs, muscles and bones, gastro-intestinal tract, and kidneys and the nervous system.

8 Hours

HST included

Fee: \$107.07

BIOMEDICAL SCIENCES

☆ Introduction to the Human Genome

CBMS 150

This course for non-science majors aims to explore our current understanding of the principles of genetics as applied to the human genome. The human genome has been fully sequenced and individuals are now choosing elective surgery based on knowledge of their genetic make-up. Students will be exposed to current ideas of the connection between our genes, health and illnesses and to the similarities and differences in genomes and gene expression among individuals and populations. (LL)

39 Hours

Fee: \$633.60

BUSINESS ANALYSIS

These courses will help you develop the expertise to make effective use of the vast amount of data available in business today.

Quantitative Methods

All CQMS course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Accounting – Finance, Business Decision Analysis, Business Management, Economics and Finance, Financial Planning, Retail Management

★ Business Statistics I

CQMS 102

Antirequisite(s): CQMS 204 and QMS 230 and CQMS 400

This course consists of an introduction to business statistics including methods of describing, summarizing, graphically presenting, measuring and analyzing statistical data, probability distributions, covariance applications, sampling distributions and control charts. The course emphasizes how to apply various statistical techniques in the support of managerial decisions in the various functional areas of business. Students will be required to use appropriate computer software and/or calculator to present and analyse statistical data.

Supplies to be purchased by the student: Software and calculator specifications will be announced at the first session. Students require access to a computer with Microsoft Windows. Calculators are not required for Internet classes.

39 Hours

Fee: \$749.03

★ Business Statistics II

CQMS 202

Prerequisite(s): CQMS 102 or CQMS 204 or Direct Entry;

Antirequisite(s): QMS 230

This course builds on the concepts introduced in QMS 102. Some of the topics to be studied follow: confidence interval estimation, hypothesis testing of means, variances, proportions, independence, and simple/multiple regression with applications to forecasting. The course emphasizes how to apply various inferential statistical techniques in the support of managerial decisions in the various functional areas of business. SPSS and/or programmable calculators are used.

Supplies to be purchased by the student: Software and calculator specifications will be announced at the first session. Students require access to a computer with Microsoft Windows. Calculators are not required for Internet classes.

39 Hours

Fee: \$749.03

★ Multiple Regression for Business

CQMS 442

Prerequisite(s): CQMS 202 or QMS 230 or Direct Entry

This course makes a comprehensive examination of both multiple regression and analysis of variance, the most commonly used statistics tools used in business, emphasizing model appropriateness for given business problem and followed by a critical analysis of any assumptions and an assessment of the model accuracy. A real-life project is used to demonstrate the practical use of the techniques. The course is supported by appropriate statistical software.

Supplies to be purchased by the student: Software and calculator specifications will be announced at the first session.

39 Hours

Fee: \$588.83

★ Business Optimization

CQMS 521

Prerequisite(s): CQMS 202 or QMS 230 or Direct Entry

This course is designed to help the prospective manager define the management decision-making process and become familiar with the Operations Research and other linear techniques in practice today. Students will learn to recognize decision situations amenable to O.R. analysis through exposure to the analysis of business problems using model formulation and problem-solving techniques. Analysis will be done using appropriate of software and platforms with an emphasis on output interpretation.

39 Hours

Fee: \$588.83

☆ Linear Algebra

CQMS 522

This course applies Matrix Algebra to the modelling of Linear Business Systems. Topics include Matrices and Linear Transformations, Determinants and Subspaces. This course should be of interest to students planning graduate studies in Business Administration or Economics.

39 Hours

Fee: \$588.83

☆ Calculus for Business

CQMS 702

Prerequisite(s): CQMS 202 or QMS 230 or Direct Entry

This course is an introductory course in calculus. Its purpose is to make the student familiar with the basic concepts and appreciate the various applications. The course will be of value to students who wish to further their understanding of business and economic model building. It will also give the student an insight into one of the most powerful and widely used of mathematical tools. Although little prior knowledge will be assumed, the student should have analytical interest. Many graduate business schools now require at least one undergraduate level calculus course. It is strongly recommended that students select QMS 702, Calculus for Business, as an elective in fourth year if they are considering graduate studies in business.

39 Hours

Fee: \$588.83

☆ Business Forecasting Techniques

CQMS 703

Prerequisite(s): CQMS 202 or QMS 230 or Direct Entry

This course deals with the application, usefulness and limitations of some of the more important and widely used time series forecasting techniques, including Box-Jenkins. A forecasting project will provide the student with insight into the practical problems of forecasting such as data acquisition, model selection and the analysis and interpretation of results. Analysis will be done using the appropriate software and platforms.

39 Hours

Fee: \$588.83

BUSINESS TECHNOLOGY MANAGEMENT

The explosion of information technology has transformed the way business is done in today's world. It has also created a need for a new type of management professional – the information management specialist. The courses offered here will give you the foundation of knowledge and technical tools to manage your information resources effectively.

Business Systems Analysis

A course series in Business Systems Analysis is available.

❖ Business Systems and Strategy **CZSA 100**

This course provides a foundation of knowledge for business systems analysts in the areas of information systems, business architecture, enterprise analysis and business strategy. Students will learn how information technology is used to rapidly deploy business systems that support or enhance business strategy for competitive advantage. This course will provide students with an understanding of the goals, purpose and value of the business systems analysis project, in the context of the overall business enterprise.

36 Hours HST included Fee: \$1371.53

❖ Business Systems Analysis and Design **CZSA 200**

Prerequisite(s): CZSA 100

Business system analysts play a critical role in harvesting benefits from IT investments. This course introduces major techniques of business system analysis, with an emphasis on using current methods and tools to investigate information system problems, identify system requirements, evaluate alternatives, and select the best solution. Case studies are utilized where students, as team members, analyze business problems and recommend information system solutions. Effective verbal and written communication skills are important elements of this course.

36 Hours HST included Fee: \$1371.53

❖ Business Process Analysis and Design **CZSA 300**

Prerequisite(s): CZSA 100

This course introduces the principles of business process analysis and design. Concepts about the role of processes in the delivery of the organization's value proposition, measuring process performance and the steps required to analyze, design and implement process changes will be used to allow students to acquire skills in process mapping, diagnosing process weakness, and identifying opportunities for improvement. Objectives of the course are to explain how process orientation enhances the efficiency and effectiveness of organizations and to teach the methods for analyzing, designing, and implementing processes.

36 Hours HST included Fee: \$1371.53

Information Technology Management

A material fee of \$0.40 is included in the total fee indicated for all CITM courses. For further information, see Material Fees. Related certificate(s): Accounting – Finance, Business Decision Analysis, Business Management, Design Management, Enterprise Architecture and Infrastructure Management, Ethics, Health Informatics, Information Systems Management, Project Management, Strategic Marketing

★ Foundations of Information Systems **CITM 100**

Antirequisite(s): ITM 277

Information systems are an integral part of all business activities and careers. This course is designed to introduce students to contemporary information systems and demonstrate how these systems are used throughout global organizations. The focus of this course will be on the key components of information systems - people, software, hardware, data, and communication technologies, and how these components can be integrated and managed to create competitive advantage. Through the knowledge of how IS provides a competitive advantage students will gain an understanding of how information is used in organizations and how IT enables improvement in quality, speed, and agility. This course also provides an introduction to systems and development concepts, technology acquisition, and various types of application software that have become prevalent or are emerging in modern organizations and society.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

52 Hours Fee: \$1216.45

★ Business Information Systems I **CITM 102**

Antirequisite(s): CITM 101 and ITM 277

This course introduces students to the role of information systems and technology strategy in the modern enterprise with a focus on helping users apply technology to achieve and maintain competitive advantage. Basic concepts include the use of systems to support business decision-making, computer hardware and software systems, networks, telecommunications, and e-business basics. Emphasis is on the development of critical thinking and analytical skills through the exploration of real-life business system applications, case studies, and a research project. During the lab component, this course also provides students with a hands-on introduction to Microsoft Excel. Upon completion of this course, students should have the generic computer skills they will need for academic, personal and business success.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

**Please note: The online version of this course uses SAM software that must be installed on a PC: the software is not compatible with MAC computers.*

39 Hours Fee: \$916.21

☆ Managerial Decision Making **CITM 107**

The course emphasizes how to apply various mathematical techniques in the support of managerial decisions in the various functional areas of business. It is subdivided into three major parts: part one covers the study of linear phenomena, including linear functions, matrices, systems of linear equations, linear inequalities, and linear programming; part two covers non-linear phenomena and focuses mainly on quadratic, exponential, and logarithmic functions; and part three examines probability concepts including uncertainties, conditional probability, and Bayes' formula.

39 Hours Fee: \$737.98

★ Fundamentals of Programming

CITM 200

This course covers the fundamental principles of object-oriented, event-driven program design and implementation in a business environment. Emphasis will be placed on logic development, program design, modularity, structured programming standards, maintainability, testing and debugging. Specifically the course will include the following programming features: memory variables; object methods and properties; the logic constructs - sequence, branch, case and loops; simple arrays; basic file structures; validation and error handling. The course will be taught in a lecture and lab design where a GUI programming language will be used to reinforce the theoretical concepts taught in class.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$737.98

★ Computer-Enabled Problem Solving

CITM 207

The course covers the basic data representation and processing constructs necessary to problem solving using computers. This includes the development of algorithmic solutions to data processing problem through the use of workflow concepts such as sequence, selection, and iteration. In addition, the course address select fundamental problem solving strategies such as the decomposition of data processing problems into multiple tasks whose functions are coordinated within a specified workflow. Computer simulation and/or implementation tools will be used to provide hands on application of covered concepts using business problem solving examples.

39 Hours

Fee: \$737.98

★ IT Infrastructure

CITM 301

Prerequisite(s): (CITM 100 or CITM 102) or in the two-year Business Tech. Ontario College Diploma Graduate Program

This course provides an introduction to computer hardware/software and communication networks. It gives the students the knowledge and skills that they need for communicating effectively with professionals whose special focus is on hardware and systems software technology and for designing organizational processes and software solutions that require in-depth understanding of the IT infrastructure capabilities and limitations. It also prepares the students for organizational roles that require interaction with external vendors of IT infrastructure components and solutions.

Note: A prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who have successfully completed CHIT 100, but do not have the listed prerequisites and wish to take this course, may contact the Academic Coordinator, Pria Nippak, at pnippak@ryerson.ca for more information.

Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$802.70

★ Systems Analysis and Design

CITM 305

Prerequisite(s): [(CITM 100 and CITM 207) or CITM 102] or in the two-year Business Technology Management Ontario College Diploma Graduate Program

The course covers the key concepts, techniques, and methodologies relevant to the process of developing information systems (IS). The course focuses on the development of requirements, analysis, and design models of the system to be. The specifications of these models are done using the Unified Modeling Language (UML). In addition, the course provides a contextual coverage of the system development life cycle and select concepts of IS construction, deployment and project management respectively.

Note: A prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who have successfully completed CHIT 100, but do not have the listed prerequisites and wish to take this course, may contact the Academic Coordinator, Pria Nippak, at pnippak@ryerson.ca for more information.

Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$802.70

★ Network Administration

CITM 315

Prerequisite(s): CITM 301 or CITM 310 or Direct Entry

Servers and networks provide the foundation for information handling in businesses and organizations throughout the world. Effective network management plays a vital role in ensuring that this foundation is sound. In this course, students will learn concepts and practice hands-on skills related to network administration by exploring a popular server operating system.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Supply Chain Process Architecture

CITM 330

Prerequisite(s): CITM 305 or Direct Entry

This course deals with enterprise wide integrated systems, and process thinking as a key element in business restructuring. Many key business applications are now implemented using comprehensive and complex enterprise software. The concepts, structure, benefits and problems of enterprise solutions are examined from a business perspective as well as from a technical Information Technology perspective.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$776.17

★ Concepts of e-Business

CITM 350

Prerequisite(s): (CITM 100 or CITM 102) or Direct Entry or in the two-year Business Tech. Ontario College Diploma Graduate Program

This course introduces the student to the business aspects of the Internet and the specific applications of eBusiness. It covers the technical, social and business changes that are taking place to make eBusiness fundamental to today's business activities. Through an examination of these changes it will identify the emerging opportunities and review how to develop business strategies and architectures to capture these opportunities. It will also examine the nature of products and services on the Internet, as well as payment systems and electronic funds transfer.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Establishing an eBusiness Operation**CITM 360***Prerequisite(s): CITM 350*

This course will take students through the various steps needed to set up an electronic commerce operation. Focusing on electronic businesses, the course teaches strategic thinking and essential business skills that apply to all types of businesses. Students will develop a business plan and strategy for an electronic business, and will learn how to design, source and implement the necessary systems and computer facilities to put the business plan into operation. It will examine the links between back office and front office operations as well as the services available to help the set up of virtual businesses.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Info Tech, Ethics and Society**CITM 407***Antirequisite(s): CITM 734, CPHL 307*

This course provides an overview of some of the social implications of new information technologies for society and the global community. Topics will include: (1) ICT Global trade, the internet and disintegration of production and global redistribution of labour; (2) Cyber crime and identity theft; (3) Cyber addiction e.g., pornography and gambling (4) Political movements and Cyber terrorism, the internet, democracy, free speech and free access; (5) ICT and global social and economic development.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$916.21

★ Business Process Design**CITM 410***Prerequisite(s): (CITM 100 and CITM 207) or CITM 305 or Direct Entry or CAAT Program*

This course introduces the principles of business process design for performance improvement. A systematic approach is used to teach students how to develop the design requirements for new business process architectures. Emphasis is placed on how to evaluate business process problems, analyze and design business processes to ensure organizational efficiency and effectiveness when new technologies are implemented. Opportunities for process improvement are based on the business strategy, the value proposition, improvement objectives of the organization, and the implementation of of-the-shelf software systems (eg. ERP, CRM, SRM). This course is intended to develop students' understanding of, and competence in the use of appropriate methods, tools and techniques of process analysis and design for organizational improvement. To ensure the development of the necessary competencies, students will work on a case study and use state-of-the-art business process frameworks, analysis and design methodologies and appropriate software tools to analyze, simulate and design the business process solutions.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$802.70

★ System Design and Implementation**CITM 430***Prerequisite(s): (CITM 200 and CITM 305) or Direct Entry or in IT015 or IT016.*

This course builds on ITM 305 and is intended to provide students with skills and competencies necessary for technical design, implementation and testing of business applications in O-O technologies. This course is based on the Object Oriented Model Driven Architecture method of system development. The UML Modelling Language will be used along with O-O software tools such as Enterprise Architecture and MDG Link to ensure platform independent designs. This course includes a design and development project in which students will implement and test a business application in O-O technologies.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Multimedia in Business**CITM 445***Prerequisite(s): CITM 200 or Direct Entry*

Multimedia is an important industry in Canada as well as a sophisticated business tool. ITM 445 introduces students to the application, production, and implementation of multimedia in business. Topics include fundamentals of multimedia production such as graphics, audio and text, multimedia applications in business, and issues in the management of multimedia such as usability, design and distribution. Emphasis is on hands-on experience with multimedia applications. A multimedia development project is required.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Data and Information Management**CITM 500***Prerequisite(s): (CITM 100 and CITM 207) or CITM 305 or CAAT Programs*

This course provides the students with an introduction to the core concepts in data and information management. It is centered around conceptual data modeling techniques, converting the conceptual data models into relational data models and verifying its structural characteristics with normalization techniques. The course will include coverage of basic database administration tasks and key concepts of data quality and data security. Building on the transactional database understanding, the course provides an introduction to data and information management technologies that provide decision support capabilities under the broad business intelligence umbrella.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$802.70

☆ Decision Analysis**CITM 501***Prerequisite(s): CQMS 102 or CQMS 204 or in IT015 or IT016*

This course provides an overview of decision analysis topics important to developing solutions to business problems. This course will take a problem-driven approach to developing students' skills in applying decision trees, expected value analysis, single- and multiple-attribute decisions, sensitivity analysis, and linear programming applied to real-world problems. Students will be required to do problem formulation, develop applications and implement problem solutions using industry-standard software tools.

39 Hours

Fee: \$721.01

★ Managing Information Systems**CITM 505***Prerequisite(s): CITM 100 or Direct Entry or in IT015 or IT016*

This course is intended to provide students with an understanding of the critical importance of Information and Communication Technology (ICT) in today's business environment, and the strategic, tactical, and operational management processes associated with it; current industry issues and trends; tools and techniques needed to manage ICT, including an introduction to governance, and security and privacy issues; and an understanding of the human and organizational issues of ICT management. Teaching/learning methods include lectures, case analyses, and in-class presentations by students with feed-back on content and style.

Note: A prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who have successfully completed CHIT 100, but do not have the listed prerequisites and wish to take this course, may contact the Academic Coordinator, Pria Nippak, at pnippak@ryerson.ca for more information.

Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$802.70

★ Adv Infrastructure Deployment and Management**CITM 513***Prerequisite(s): CITM 600*

This course builds upon the network design concepts that were introduced in ITM 600. This course focuses on understanding industry best practices in the design and deployment of TCP/IP based networks. Specific topics such as: subnetting, route aggregation, IPv6, interior and exterior routing protocols (RIP, OSPF, EIGRP, MPLS, and BGP), and the selection of IP routing protocols will be presented. Other issues such as the deployment of VPN's (Virtual Private Networks) reliability and scalability issues may also be covered depending on the students' interests and the time available.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Auditing of Information Systems**CITM 595***Prerequisite(s): (CACC 521 and CITM 696) or CITM 305 or Direct Entry*

This course is designed to enhance the student's understanding of audit risks and control risks relevant to audits in computerized environments. The course addresses the implementation and evaluation of security and controls in these environments; the techniques necessary to perform external EDP audits; auditing using CAATs; basic considerations in auditing EDI systems; and, audit and control issues associated with eCommerce, networks, VPNs and continuous auditing. The course will focus on auditing of Information Systems, which produce internal and external reports. Students will be introduced to audit approaches, computer risks, concerns related to internal controls and techniques for evaluating systems and business processes. Students will also be able to assess the integrity of data used in various management reports.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Data Communications Network Design**CITM 600***Prerequisite(s): CITM 301 or Direct Entry*

This course will provide students with an understanding of how telecommunications networks are designed and deployed to support e-commerce, multimedia and web-centric business applications. Network planning concepts, network analysis, network design tools and techniques are introduced. The objective of this course is to understand the design and analysis of data communications networks through the introduction of case studies and practical network design methodologies. Also an understanding of the application, deployment and benefits of industry standard architectures including: TCP/IP, VoIP, SONET, Gigabit Ethernet, 3G and other emerging standards will be provided.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$776.17

★ Advanced Business Process Methods**CITM 601***Prerequisite(s): CITM 410 and CITM 501*

This course builds on the basic principles of business process analysis and design of ITM410. The focus of this course is on applying the Theory of Constraints to the analysis of business process performance. Students learn how to apply of advance techniques from ITM501 for business process analysis and improvement of performance. Emphasis is placed on how to evaluate business process problems, analyze and design business processes to ensure organizational efficiency and effectiveness when new technologies are implemented. Opportunities for process improvement are based on the business strategy, the value proposition, and improvement objectives of the organization. This course is intended to further develop students' understanding and competence in the use of appropriate methods, tools and techniques for analysis and design of business process performance improvement. To ensure the development of the necessary competencies, students will work on case studies and use state-of-the-art process analysis techniques and appropriate software tools to analyze, simulate and design solutions to a range of business process problems.

39 Hours

Fee: \$721.01

★ Client Server Applications**CITM 605***Prerequisite(s): CITM 500*

This course covers the concepts and applications of the client/server architectural model for web-enabled data centric information systems, including E-Commerce enterprise systems. The course emphasizes the principles and techniques necessary for the appropriate integration of the web-enabled front-end layer of the system with its business logic counterpart and its backend database. The course may include the use of the .NET development framework along with the VB.NET language and the MS SQL database server.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Database Administration**CITM 610***Prerequisite(s): CITM 500*

This course covers the Database Administration (DBA) role for large-scale relational databases. It specifically will deal with the following: the approach to the installation and upgrading of software and utilities; techniques for the allocation of the database to physical devices and directories; the creation of user authorities and controlling access to data and resources; management of data storage; analyzing database performance and implementing procedures for optimizing performance; procedures for the backup and recovery operations.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Knowledge Management/Learning Technologies**CITM 612***Prerequisite(s): CITM 500;
Antirequisite(s): ITM 703*

Knowledge is a powerful asset in an organization and a prime contributor to an organization's success. This course will examine how to identify, leverage and nurture the knowledge assets in an organization to contribute to the business strategy and enable its success. It will cover the basic concepts and practices of knowledge management from an organizational learning, content management and cultural perspective and investigate some of the enabling technologies to support knowledge acquisition, sharing and utilization. Topics will include: understanding today's knowledge economy and knowledge workers; developing a knowledge management strategy; differentiating knowledge from information; measuring value; selecting and implementing knowledge management systems. Case studies will be a critical part of this course. Students will gain hands-on experience in the use of one or more knowledge management tools.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Physical Dbase Design and Implementation**CITM 617***Prerequisite(s): CITM 500 or Direct Entry*

This course covers aspects of the physical design, implementation and data base performance analysis for business applications. Students will learn to develop physical database requirements from Logical Designs, and to analyze query processing performance of the physical implementations. In addition to weekly labs the course will include a design project which will help students to develop competence with standard database definition (DDL/SQL) and procedural languages (PL/SQL) for defining physical schemas and developing stored procedures, triggers and user functions. The course will utilize state of the art data base design tools and relational database software.

39 Hours

Fee: \$802.70

★ Accounting Information Systems**CITM 696***Prerequisite(s): CITM 102 or Direct Entry*

Most people are affected by computer-based systems. The students will be involved in the management of computing resources and information such that business problems can be dealt with effectively. This course will focus on the use of information and computing resources in the business community. This will enable students to create their own business information systems or participate with others in the analysis and design of solutions for corporate business problems.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Wireless and Mobile Communications**CITM 704***Prerequisite(s): CITM 600;
Antirequisite(s): CITM 805*

This course explores the concepts and applications of wireless technologies and systems, and how mobile and wireless communications hardware, software and network technologies are applied within a business environment. This course provides an understanding of complex wireless and mobile systems by exploring the individual components that are used to build these systems. These include network management, integration of wireless and wireline networks, system support for mobility, computing system architectures for wireless nodes, user interfaces appropriate for small handheld portable devices, and new applications that can exploit mobility and location information.

Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39 Hours

Fee: \$721.01

★ Enterprise Architecture**CITM 706***Prerequisite(s): CITM 301 and CITM 305 and CITM 410*

This course focuses on business analysis, organizational processes, enterprise architecture, and security/risk management. This course explores the design, selection, implementation and management of enterprise business processes from the perspectives of IT capabilities. These capabilities are typically organized and presented as enterprise architecture, consisting of high-level internally compatible representations of organizational business models, data, applications, and information technology infrastructure. Students will learn frameworks and strategies for infrastructure management. They will hone their ability to communicate technology architecture strategies concisely to a general business audience.

39 Hours

Fee: \$720.11

NEW**☆ Strategy, Management and Acquisition** **CITM 707***Prerequisite(s): CITM 410 and CITM 500 and CITM 750*

This course explores the issues and approaches in managing the information systems function in organizations and how the IS function integrates / supports / enables various types of organizational capabilities. It takes a senior management perspective in exploring the acquisition, development and implementation of plans and policies to achieve efficient and effective information systems. The course addresses issues relating to defining the high-level IS infrastructure and the systems that support the operational, administrative and strategic needs of the organization. The remainder of the course is focused on developing an intellectual framework that will allow leaders of organizations to critically assess existing IS infrastructures and emerging technologies as well as how these enabling technologies might affect organizational strategy. The ideas developed and cultivated in this course are intended to provide an enduring perspective that can help leaders make sense of an increasingly globalized and technology intensive business environment.

39 Hours Fee: \$721.01**★ Consulting Skills for IT Professionals** **CITM 724***Prerequisite(s): CITM 505 and CITM 750*

Whether an internal or external consultant to an organization, IT professionals need well developed consulting skills. This course will examine the consulting industry, consulting firms and consulting process models as they apply to various types of IT consulting engagements. Students will study real life consulting projects with practitioners in order to explore consulting skills, roles, skills and services and how they apply to IT projects. Students will also carry out self-assessment and career planning activities to determine their fit to a consulting career and how to explore careers in the industry. Much of the course is taught through classroom exercises and simulations, requiring pre-class preparation and active participation. This course will be relevant to students who anticipate being external or internal consultants.

*Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.*39 Hours Fee: \$721.01**★ Switching and Routing Laboratory** **CITM 732***Prerequisite(s): CITM 513 and CITM 600*

This course will provide students with comprehensive but practical knowledge needed to configure routers and switches for both local and wide area networks. Students will learn the principles needed to utilize bandwidth more effectively and to enhance security and privacy. Students will be introduced to the tools and methodologies needed to design, debug and troubleshoot networks. Labs will include configuring routers using link protocols and learning how to link ISPs. Students will be able to plan and implement IP addressing schemes; and configure and verify routing protocols.

*Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.*39 Hours Fee: \$721.01**★ IS Project Management** **CITM 750***Prerequisite(s): (CITM 305 and CITM 410) or Direct Entry*

This course provides students with a more in-depth understanding of the tools and techniques of project management as it applies to IT-enabled process improvement projects. The ability to plan and execute projects successfully is consistently ranked among the most important skills among information technology professionals. The course is based on the industry-standard Project Management Body of Knowledge (PMBOK) and provides cutting-edge techniques for project planning, scheduling, budgeting, human resources, quality, procurement, communication, and risk management.

*Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.*39 Hours Fee: \$721.01**☆ Applied Feasibility Analysis** **CITM 800***Prerequisite(s): CITM 700*

This course examines the methodologies and tools necessary for successful planning, evaluation and implementation of information technology. Emphasis will be placed on further developing the skills learned in ITM 700 to identify opportunities to increase the effectiveness and/or efficiency of a business unit's operations, to increase its competitive edge, or to enhance the deployment of human and/or information resources in a corporation. Building on the industry and company analysis project from ITM 700, student teams will conduct a feasibility study within a real client organization to develop or redesign a business process or information system. The study will identify organizational issues related to introducing new technologies, design required process changes, establish business case justification and provide an implementation plan for the recommended solution.

*Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.*39 Hours Fee: \$721.01**★ Information Systems Security and Privacy** **CITM 820***Prerequisite(s): CITM 600;**Antirequisite(s): CITM 420, ITM 725*

This course considers the technical, operational, and managerial issues of computer and network security in an operational environment. Industry best-practices relating to computer security including schemes for breaking security, and techniques for detecting and preventing security violations are the core focus of this course. This course will also explore the principles of data privacy, threats to privacy, international and national policy, particularly related to privacy-enhancing technologies as they apply to the management of information systems and e-Business.

*Note: Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.*39 Hours Fee: \$645.68

Management Consulting

❖ Prof Consulting Capstone

Prerequisite(s): CZMC 110 and CZMC 120

Students who complete the Management Consulting Professional Program may choose to apply their knowledge in a consulting practicum that is available only to MCPP graduates interested in gaining the CMC certification. Students in this course will be supervised and their work evaluated by a Ryerson faculty member and a CMC member sponsor will support each student.

39 Hours

CZMC 200

Fee: \$1119.54

CARIBBEAN STUDIES

These courses will explore topics of culture, race, ethnicity, religion, and the social, economic, and political developments in the diverse Caribbean region.

Caribbean Studies

Related certificate(s): Caribbean Studies

★ Introduction to the Caribbean

CCRB 100

Antirequisite(s): SYC 183

This course will focus on the similarities in historical development of the different societies in the Caribbean region and the common institutional structures and challenges that persist, despite the diversity of language and culture, race, ethnicity and religion. The course will examine the relationship between physical resources and social, economic and political developments within the colonial and neocolonial context and the resulting systems of inequality. (LL)

39 Hours

Fee: \$595.84

★ Families in the Caribbean

CCRB 500

The Caribbean region is composed of peoples from different geographic and cultural areas of the world. This course will explore the major historical influences which define the present diverse structure and composition of families within the Caribbean region. It will examine how these structures have changed in response to globalization, the declining influence of religion, shifts in migration, changes in economic conditions and state policies, and in gender, race and ethnic relations. (UL)

39 Hours

Fee: \$576.75

★ Racism and Caribbean Peoples in Canada

CCRB 501

The immigration of Caribbean peoples to Canada will be analyzed within the context of Canadian immigration laws and practices, labour market demands, and institutional responses to racial and ethno-cultural diversity. The major focus of the course will be on the establishment and growth of the Caribbean population in Canada, including employment, business and settlement patterns, changes to family structure, development of Caribbean organizations and community development activities, and issues of systemic and individual racism. (UL)

39 Hours

Fee: \$576.75

★ Cultural Traditions in the Caribbean

CCRB 502

This course analyzes the evolution and social significance of cultural traditions in the Caribbean, leading to an understanding of contemporary popular traditions. The course examines the ethnic, racial and cultural diversity of the area, as a source of distinct cultural traditions; the impact of foreign influences; and the export of Caribbean cultural forms to the international area. (UL)

39 Hours

Fee: \$576.75

NEW**★ Postcolonial Caribbean Society****CCRB 600**

This course looks in detail at the specific legacies of colonialism in the Caribbean and explores the reasons why the Caribbean is still affected to a great extent by the over 500 year legacy of European colonial rule. Postcolonial socioeconomic and cultural structures are discussed, as is the impact of colonialism on Caribbean bodies and Caribbean people's ways of seeing themselves and their world.

39 Hours

Fee: \$576.75

NEW**★ Special Topics in Caribbean Studies****CCRB 603**

This course will explore selected topics chosen by the instructor through selected readings and audiovisual materials, class discussions, and presentations from guests who are experts in their field. The themes will vary according to the instructor, but will focus on issues specific to the Caribbean, historical and contemporary.

39 Hours

Fee: \$576.75

★ Caribbean Tourism: Impacts and Resistance**CCRB 605**

This interdisciplinary course will take a critical look at the political, social, cultural, economic and other impacts of various forms of tourism in the Caribbean. Links between the current dependency on tourism many Caribbean nations have due to globalization, and historical patterns of colonialism and servitude that persist today and are replicated in many tourism practices, will be examined. Students will be exposed to various elements of diversity relative to Caribbean tourism including racial, ethnic, economic, and sexual. Forms of resistance, political and cultural, against mass tourism will be addressed, as well as new developments in sustainable and ethical tourism.

39 Hours

Fee: \$576.75

NEW**★ Caribbean Critical Thought****CCRB 614**

This course will critically examine current issues that Caribbean peoples face. Students will also be exposed to the rich history of ideas that have emanated from this region in such areas as anti-colonial political thought, social justice and human rights, cultural self-recognition through the arts and literature, Pan-Africanism and other resistance movements that highlight some of the ways Caribbean peoples have moved towards the process of decolonization.

39 Hours

Fee: \$576.75

CHEMISTRY

These courses are of interest to professionals in the chemical and biological fields as well as those seeking to upgrade their skills and theoretical background in specific topics. Pre-medicine and professional health career courses are taught.

★ General Chemistry I**CCHY 103**

This foundation course begins with an introduction to types of chemical compounds, chemical reactions and stoichiometry. Subsequent topics include the investigation of the states of matter (primarily liquids and gases), solutions and colligative properties, chemical equilibrium, acids and bases, and thermochemistry. This course acts as the first half of a full year general chemistry sequence and is a precursor to CHY 113 General Chemistry II.

39 Hours

Fee: \$593.72

☆ Introductory Organic Chemistry**CCHY 152***Prerequisite(s): CHY 104*

This course is intended for Occupational and Public Health students. An introductory organic chemistry course which includes the following topics: bonding, nomenclature, main functional groups, properties, reactions and characteristics of organic compounds.

39 Hours

Fee: \$593.43

☆ Chemistry Applications to Living Systems**CCHY 182***Antirequisite(s): CCHY 102, CCHY 103, CHY 104, CCHY 113, CHY 123*

The emphasis of this course will be on understanding chemistry and the role it plays in everyday life, particularly to those who live in an urban environment. The course will endeavor to have a conceptual and contextual focus rather than a quantitative approach, relating chemistry to urban/environmental issues with particular reference to life in Toronto where possible. Topics could include water/sewage treatment, air pollution, energy sources, soil chemistry, foods, and industrial chemistry (polymer, petroleum, pharmaceutical, etc.) The curriculum could also include sections on street drugs, cosmetics, chemistry in the movies, and forensic chemistry. (Formerly SCI 182). (May not be used as a credit towards a science degree). CHY 182 is not available for credit to students who choose CHY 103 or CHY 113. (LL)

39 Hours

Fee: \$593.72

☆ Introduction to Forensic Sciences**CCHY 183**

The popularity of TV shows depicting the science of criminal investigations has impacted the way forensic science is viewed by the public and media. This course will provide non-science students with an introduction to the field of forensic science. Students will develop an appreciation of the critical methods of scientific investigation, reasoning, and communication. Topics will include techniques of chemical analysis, physical investigation, and the role of expert witnesses in crime scene investigations. (Formerly SCI 183). (LL)

39 Hours

Fee: \$593.72

★ Organic Chemistry II

Prerequisite(s): CHY 142

This course includes the mechanistic approach to the study of organic reactions and includes condensation reactions, aromatic chemistry and pericyclic reactions. Also included are spectroscopic methods of structure determination, organic synthesis and the use of organometallic reagents.

39 Hours

CCHY 242

Fee: \$593.72

★ Physical Chemistry I

Prerequisite(s): CCHY 103, CCHY 113 and CMTH 231

The three laws of thermodynamics; free energy and chemical equilibria; thermodynamics of solutions.

39 Hours

CCHY 381

Fee: \$593.72

☆ Alternative Energies

The focus of this course is on carbon-free renewable energies. Students will first examine the use of carbon-based fuels, and compare and contrast these fuels to carbon-free alternatives including solar, wind, water, hydrogen, and nuclear energies. The course will emphasize qualitative rather than quantitative concepts, and will include social, economic, and environmental impacts of these alternative energy sources. (UL)

39 Hours

CCHY 583

Fee: \$593.43

Introduction to Chemistry

This course is a two-term introduction to chemistry. In the first term, topics discussed include atomic structures, electronic configurations, bonding, formulae, nomenclature, the mole concept, chemical reactions, and stoichiometry. In the second term, topics discussed include gases, liquids and bases, chemical equilibria, electrochemistry, nuclear chemistry, and organic chemistry.

Note: Formerly CKCH 108 and CKCH 109.

An Academic Bridging Course which may be used to meet the Grade 12 U Chemistry requirement for Ryerson admission purposes. Please note that mature student applicants will be considered on an individual basis. Please contact Undergraduate Admissions and Recruitment for details.

78 Hours

CKCH 90A/B

Fee: \$752.91

★ General Chemistry Laboratory

Corequisite(s): CKCH 106 or CCHY 103

Experiments cover the following topics: determination of water hardness, solution preparation, acid-base titration, calorimetry, solubility equilibria, and chemical kinetics. Equivalent to the laboratory portion of CHY 113.

Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

39 Hours

CKCH 107

Fee: \$625.55

★ General Chemistry II

Prerequisite(s): CKCH 106 or CCHY 103

Electrochemistry, atomic theory, bonding, liquids and solids. Solutions, representative elements, transition metals, nuclear chemistry. Equivalent to the lecture portion of CHY 113.

39 Hours

CKCH 113

Fee: \$613.88

★ Organic Chemistry I

Prerequisite(s): (CCHY 103 or CKCH 106) and (CCHY 113 or CKCH 113)

This is an introductory course based on the mechanistic approach to the study of organic reactions, and includes functionality, IUPAC nomenclature, structural and stereoisomerism, oxidation and reduction, nucleophilic additions, nucleophilic substitutions, eliminations, electrophilic additions of aliphatic compounds. Lecture portion of CHY 142.

39 Hours

CKCH 142

Fee: \$625.55

★ Organic Chemistry Laboratory

Prerequisite(s): CKCH 107 or CCHY 113;

Corequisite(s): CKCH 142

This laboratory course will cover the techniques involved in using the primary wet chemical tools: distillation, extraction, recrystallization, filtration, and rotary evaporation. Measurement of refractive index, melting point, and boiling point as well as some simple syntheses; isolation and purification operations will be carried out. Laboratory portion of CHY 142.

Note: Students are required to take CKCH 142 before or at the same time as CKCH 143. Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

39 Hours

CKCH 143

Fee: \$638.28

★ Analytical Chemistry I

Prerequisite(s): CKCH 106 or CCHY 103

This entry-level course concentrates on noninstrumental analytical methods and includes the following lecture topics: gravimetry; equilibria and titration applications of acid-base, redox complex formation and precipitation reactions. Lecture portion of CHY 213.

39 Hours

CKCH 216

Fee: \$625.55

★ Analytical Chemistry II

Prerequisite(s): CHY 213 or CKCH 216

This course is a continuation of Analytical Chemistry I (CKCH216) but concentrates on instrumental analytical methods. The course introduces the student to the theory, instrumentation and applications of atomic and molecular spectroscopy, potentiometry (including ion-selection), electrodes and chromatography. Lecture portion of Analytical Chemistry II (CHY223).

39 Hours

CKCH 223

Fee: \$625.55

★ Analytical Chemistry Laboratory II

CKCH 224

Prerequisite(s): CKCH 217;
Corequisite(s): CKCH 223

This laboratory course includes experiments based on the topics discussed in Analytical Chemistry II (CKCH223). Laboratory portion of Analytical Chemistry II (CHY223).

Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

39 Hours

Fee: \$692.38

★ Biochemistry I

CKCH 225

Prerequisite(s): (CKCH 142 or CHY 200 or CHY 142) and CBLG 143 and CBLG 144

This course deals with the structures, functions, chemistry and food applications of proteins, carbohydrates, lipids and nucleic acids. Also included is an introduction to enzymology (coenzymes, nomenclature and classifications of enzymes and enzymatic control of biochemical reactions). Lecture portion of BCH 261.

39 Hours

Fee: \$638.28

★ Biochemistry Laboratory I

CKCH 227

Prerequisite(s): (CKCH 142 and CKCH 143) or CHY 142
Corequisite(s): CKCH 225;

The laboratory provides an introduction to the basic biochemical techniques including chromatography, electrophoresis, and spectrophotometry. Laboratory portion of BCH 261.

Attendance at labs is mandatory. Labs begin the first week of classes. You will need to activate your Ryerson email account in order to receive communication from your lab instructor. Come prepared for your lab. You will need a lab coat, safety glasses or goggles, nitrile gloves, and a lab notebook. You should dress appropriately: no shorts, no skirts, no sandals, no open toed or open heeled shoes, and no high heels.

39 Hours

Fee: \$692.38

❖ Science Mentorship

CKIH 200

Prerequisite(s): Department consent

This course will provide students with practical skills and tools needed to become effective peer mentors and leaders. Students will also develop skills to enhance their individual career, academic, and personal goals. Students will participate in a reflective learning process where their mentoring experiences are shared with other students. They will learn how to transfer these skills (learned through mentoring and course work) to career and academic objectives.

Note: In-person registration only. For further details, please contact Alina Velieva, First Year and Common Science Office, at the Faculty of Science at avelieva@ryerson.ca.

30 Hours

Fee: \$0.00

CHILD AND YOUTH CARE

Child and youth care is a practice-based discipline, with roots in psychology, sociology, medicine, social work, and education. The following courses will allow you to explore a field focused on research and practice which integrates developmental, preventative, and therapeutic requirements into the life space of children, youth, families, and communities.

Child and Youth Care

Related certificate(s): Aboriginal Knowledges and Experiences

★ An Aboriginal Perspective on CYC

CCYC 905

This course addresses the history of abuse and oppression that continues to impact on the wellbeing of Aboriginal children, youth and families. Students will be presented with approaches to working with Aboriginal young people that are culturally sensitive and draw on Aboriginal ways of being. From this course, it is hoped that students will be able to enrich their practice by gaining an understanding of partnership models for care, intervention and service delivery.

39 Hours

Fee: \$593.72

CHINESE

These courses are designed for non-native speakers and teach reading, writing, speaking, and listening in Mandarin using the standard Hànyu Pinyin phonetic system. All students must take the Chinese Placement Test on the Department of Languages, Literatures, and Cultures website or attend one of our interview/ placement assessment sessions.

☆ Introductory Chinese I

Antirequisite(s): CMDN 101

This course is designed to help students with no prior background in Mandarin to develop functional communication abilities in all four language skills. Using the standard Hànyu Pinyin phonetic system, a variety of authentic materials, vocabulary and sentence patterns, students will learn to make statements, ask questions, respond to questions and create conversations based upon culturally authentic situations. By the end of this course, students will be able to read and write 250 characters. An online placement test is required. (LL)

Note: All students must take an interview/ placement assessment before enrolling in this course.

39 Hours

Fee: \$643.58

CCHN 101

☆ Introductory Chinese II

Antirequisite(s): CMDN 201

This course is designed for students with some background in Mandarin to develop functional communication in all four language skills. Using the standard Hànyu Pinyin phonetic system, a variety of authentic materials, vocabulary and sentence patterns, students will learn to make statements, ask questions, respond to questions and create conversations based upon culturally authentic situations. By the end of this course, students will be able to read and write 550 characters. An online placement test is required. (LL)

Note: All students must take an interview/ placement assessment before enrolling in this course.

39 Hours

Fee: \$643.58

CCHN 201

☆ Intermediate Chinese I

Antirequisite(s): CMDN 301

This course is designed for students with some background in Mandarin to improve their functional communication abilities in all four language skills in spoken and written Mandarin. Using the standard Hànyu Pinyin phonetic system, a variety of authentic materials, vocabulary and sentence patterns, students will learn to make statements, ask questions, respond to questions and conduct conversations. By the end of this course, students will be able to read and write 800 Chinese characters. (LL) (UL)

Note: All students must take an interview/ placement assessment before enrolling in this course.

39 Hours

Fee: \$643.58

CCHN 301

☆ Intermediate Chinese II

CCHN 401

This course is for students with some background in Mandarin who wish to improve their communication abilities in all four language skills. By using the standard Hànyu Pinyin phonetic system and a variety of authentic materials, students will learn to make statements, ask questions, respond to questions and create conversations based upon culturally authentic situations. By the end of this course, students will be able to read and write over 1000 Chinese characters. (LL) (UL)

Note: All students must take an interview/ placement assessment before enrolling in this course.

39 Hours

Fee: \$643.58

NEW

☆ Advanced Chinese I

CCHN 501

This course is designed for students with an intermediate knowledge of Chinese. It will focus on improving listening comprehension, reading, writing and speaking Mandarin Chinese. Using a variety of authentic materials, students learn to produce oral and written texts based upon culturally appropriate situations. By the end of the course, students will be able to read brief short stories and write essays containing 1250 characters. (UL)

39 Hours

Fee: \$643.58

NEW

☆ Advanced Chinese II

CCHN 601

This course is designed for students with a high-intermediate knowledge of Chinese. It will focus on improving listening comprehension, reading, writing and speaking Mandarin Chinese. The conversations and written texts will be based upon culturally appropriate situations. By the end of the course, students are able to read a novella and write essays containing 1500 characters. (UL)

39 Hours

Fee: \$643.58

COMMUNICATION

These courses can help you develop a high level of skill in written and oral communications and are especially relevant to business and government environments. They focus on building and integrating writing, analytical, and research skills so that your business presentations make your point and achieve your purpose.

Communication

Related certificate(s): Architecture, Advanced, Business Communication, Business Decision Analysis, Community Engagement, Leadership, and Development, Design for Arts and Entertainment, Design Management, Disaster and Emergency Management, Entrepreneurship and Small Business, Facility Management, Fashion Coordination and Styling, Health Services Management, Health Studies, Occupational Health and Safety, Project Management, Project Management for Technical Professionals

★ Short Management Reports **CCMN 114**

This writing-intensive workshop course helps students gain the proficiency needed to meet the communication demands of contemporary management tasks. Participants learn to focus their purpose, analyze their audiences, and compose a variety of informative and persuasive documents, such as instructional and motivational memoranda, policy change reports, and new venture proposals. A module on planning, outlining and delivering professionally-related oral presentations to peers, management and industry partners completes this workshop designed to refine key written and oral skills for success in today's workplace.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$606.45

★ Communication in BTM **CCMN 124**

This course emphasizes analysis, organization, tone, style and strategy in the development of effective written and oral communications. Data collection and report documentation are included. This course is specifically designed for students in the Business Technology Management program.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$612.82

★ Retail Management Communication **CCMN 201**

This workshop course introduces students to the theory and strategies of successful written and oral communications in retail management. Students apply communication theory in a variety of activities based on specific professional situations, and practice selecting and organizing pertinent information. They learn to express ideas clearly, develop sensitivity to audience and tone, and produce oral and written messages that are well received and acted upon in the manner intended by the author.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$612.82

★ Introduction to Professional Communication **CCMN 279**

This case-based, interactive course introduces students to contemporary strategies of successful communication in professional contexts. Students learn how to analyze audience, situation, and medium to create messages that respond to practical challenges and build productive relationships. Students develop sensitivity to language and tone, learn to organize and convey ideas and information, and select the best means to accomplish their intended purposes.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$601.15

★ Career Advancement Communication **CCMN 304**

This course aims to develop the communication skills and strategies necessary to meet the challenges of the current workplace. With particular focus on the job search and career development, course content covers such topics as research and interviewing, persuasive writing and speaking, developing a professional image and making effective communication decisions.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$593.72

★ Organizational Problem Solving and Report Writing **CCMN 313**

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

Organizational Problem Solving and Report Writing focuses on the selection, treatment and solution of a complex problem in an organization, through the development and preparation of a formal, analytical report. Students learn how to identify a problem, define its purpose, customize a message for multiple audiences, create a work plan, apply primary and secondary research methods, and structure an argument logically and persuasively. Students will strengthen their critical thinking skills as they evaluate findings and formulate conclusions and recommendations.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$593.72

★ Professional Presentations **CCMN 314**

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

Successful professionals achieve their objectives by consistently delivering meaningful presentations to diverse, demanding audiences. High expectations and extensive technology often complicate rather than improve the presenter's ability to communicate effectively. In this essential course, students learn to structure content coherently, develop poise and confidence, and employ technology in a sophisticated way to connect with their listeners.

Note: Registered certificate program students without the CCMN course prerequisites may apply to the Academic Coordinator, Sandra Rosenberg, at srosenbe@ryerson.ca for consideration to enroll in this course without the required prerequisites.

For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours Fee: \$593.72

★ **Issues in Communication and the Contemporary Workplace**

CCMN 315

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

Effective communication has always been an essential component of business. It is particularly important today, when business people communicate in increasingly complex and diverse workplaces. They must deal with ethical dilemmas, intensifying organizational change, global and multicultural partners, increased specialization, and constant technological developments. Using practical examples and case studies, this course both explores communication challenges that business professionals face today and helps them develop strategies and practices designed for the contemporary workplace.

Note: Registered certificate program students without the CCMN course prerequisites may apply to the Academic Coordinator, Sandra Rosenberg, at srosenbe@ryerson.ca for consideration to enroll in this course without the required prerequisites.

For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

★ **Fashion Communication: Professional Approaches** **CCMN 373**

In this course for the Fashion Communication and Design options, students learn fundamental concepts which are applied to correspondence, reports, oral presentations, media relations, and the job search. The emphasis is on analyzing audience and purpose; controlling language, style, and tone; and choosing communication strategies appropriate to a variety of professional situations.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

★ **Corporate Communications**

CCMN 413

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

How does a company communicate its reputation and image and manage these intangible features when damaged? Through examining high-level communication strategies and products, students develop sensitivity to the language, formats, and images organizations use to manage their concerns. Students also practice skills corporate communication professionals employ to communicate with a variety of audiences.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

★ **Interpersonal Communication in Management**

CCMN 414

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

In this experiential workshop course, students participate in a variety of group and individual exercises designed to develop the interpersonal skills necessary for effective management. Students learn how member diversity and the communication medium affect group processes such as problem solving, decision making, resolving conflict, and negotiating. Some sessions may be videotaped.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

★ **Communication in the Engineering Professions**

CCMN 432

Communication lies at the heart of what engineers do. This course introduces students to the unique and varied communication challenges of their profession. Through a combination of lectures, readings, and workshops, students are exposed to the types of communication they will engage in as professionals and given the opportunity to refine their analytical, writing, presentation, and problem-solving skills.

Note: CLER, CLEC, CLEG degree program students must take CVL 743 as a corequisite to this course.

For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

56 Hours

Fee: \$593.72

★ **Contemporary Intercultural Communication**

CCMN 443

Prerequisite(s): CMN 100 or CCMN 114 or CCMN 124 or CCMN 201 or CCMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

In today's global environment, success or failure of almost any venture requires a clear understanding of intercultural issues. In this course, various communication strategies and theoretical frameworks are analyzed in cultural context.

Note: For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

★ **Communication and Law**

CCMN 447

Prerequisite(s): CLAW 122 and (CCMN 279 or CCMN 124 or CCMN 373 or CCMN 207 or CCMN 201 or CCMN 300 or CCMN 114 or CMN 100)

Communication practitioners must understand how law matters in every day communication and be cognizant of the principles, institutions, and practices that regulate communication in a range of media and contexts. In this case and theory-based course, students explore the intersections of communication and law through the study of semiotics and legal discourse; the social and technological contexts of communication that provoke and challenge legal regulation; freedom of expression; and the legal frameworks for the protection of consumers, individual privacy, and intellectual property in the digital age.

Note: Registered certificate program students without the CCMN course prerequisites may apply to the Academic Coordinator, Sandra Rosenberg, at srosenbe@ryerson.ca for consideration to enroll in this course without the required prerequisites.

For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website.

39 Hours

Fee: \$593.72

☼ **Disaster and Emergency Incident Communications**

CCDM 125

This course introduces the practical skills, strategies, and basic tools required to prepare and manage effective internal and external communications before, during, and after a crisis. The course examines real problems requiring real solutions and builds competencies in writing messages for multiple emergency scenarios, preparing alerts and announcements, staging press conferences, media relations building information hotlines and websites, crisis psychology using ethically sound communications strategies, audience control, and collaborating with other emergency teams.

39 Hours

Fee: \$629.62

🔗 Communicating in Virtual Environments

CDCM 300

Prerequisite(s): CCMN 279

This course introduces students to the unique opportunities and challenges of communicating in virtual environments. Experiential exercises and individual and group assignments will help students develop effective interpersonal skills for tele-, audio-, and video-conferencing and computer-mediated teamwork. Topics covered include effective remote leadership, building trust, global project communication, concision, and persuasion and disclosure in emails and instant messaging. The delivery of this course will allow students to practice both virtual teamwork and face-to-face collaboration.

39 Hours

Fee: \$629.62

🔗 Promotional Communications

CDCM 415

The art of promotion is fundamental to the selling of products, services, and ideas. In this innovative course, students use a range of media and communication strategies to put the theory and ethics of promotion into practice. Students learn how to meet the challenges of bringing a new product or service to market from beginning to end and how to communicate with internal stakeholders and target audiences to promote the new initiative successfully. This course enables students to experience firsthand the dynamics of conceiving, developing, and executing a promotional campaign, as well as equips them with the skills needed to engage effectively in the marketing communications process.

39 Hours

Fee: \$629.62

🔗 Professional Etiquette and Networking Skills for Business and Social Success

CDCM 907

Do you want to make a great first impression? Displaying good manners and social skills makes an enormous difference in how you are perceived by superiors, peers, friends and family. This workshop covers: formal dining, shaking hands, exchanging business cards, making introductions, conversation and toasts, on-line and telephone etiquette, body language, dressing for success, international etiquette, and common faux pas. During a catered sit-down lunch, participants practice their formal dining, conversation, and toasting skills. Through lectures, role plays, simulations, discussions, videos, and group interaction, participants will improve their etiquette and learn how to handle business and social situations with confidence and grace.

7 Hours

HST included

Fee: \$243.73

COMPUTER SCIENCE

The following courses can develop your computer expertise in two key areas. Some courses focus on language programming and operating systems; these are particularly recommended if your interests lie in technical or system support. Other courses focus on using computers to solve engineering or technical problems. In these, the emphasis is on learning how to translate problems into an appropriate mathematical form. In addition, computer security, digital forensics, and 3-D printing, visualization, and agile product prototyping are taught. Note: Written approval is required before undergraduate degree program students can register in these courses.

Computer Science

Related certificate(s): Computer Programming Applications, Data Analytics, Big Data, and Predictive Analytics, Financial Mathematics Modeling

★ Computer Science I

CCPS 109

An introductory programming course designed to introduce fundamental Computer Science concepts such as abstraction, modelling and algorithm design. Emphasis is placed on producing correct software. This course uses Java as its programming language.

65 Hours

Fee: \$1275.88

★ Computer Science II

CCPS 209

Prerequisite(s): CCPS 109

A continuation of CPS 109. Emphasis is placed on code structure, algorithm development, and Object Oriented design principles.

52 Hours

Fee: \$1094.46

☆ Computer Organization I

CCPS 213

This course introduces the students to the principles and fundamentals of digital system design. Topics covered include: Binary numbers, base conversions, signed numbers, Boolean algebra, logic gates, K-map method, combinational circuits, decoders/encoders, multiplexers, sequential circuits, flip-flops, state diagram, registers, counters and addressing techniques.

65 Hours

Fee: \$641.46

★ Data Structures and Algorithms

CCPS 305

Prerequisite(s): CCPS 209 and CCPS 393

Introduction to data structures and algorithms. Topics may include ADTs, restricted lists (stacks and queries), generalized lists, trees, searching, sorting, hashing, graphs, algorithm design, complexity analysis, recursion.

52 Hours

Fee: \$783.62

★ **Object Oriented Programming and Design** **CCPS 311**

Prerequisite(s): CCPS 209 and CCPS 393

This course further explores the Object-Oriented paradigm emphasizing the Object Model and relationships between the various artifacts. The pure Smalltalk language is introduced to reinforce the OO paradigm. The Unified Modeling Language to capture the objects, classes, and their relationships is studied in considerable depth with a major analysis and initial design project done in teams. A reasonably complete coverage of C++ is presented. Time permitting, OO features of other languages will be discussed.

39 Hours

Fee: \$641.46

★ **Introduction to C and UNIX** **CCPS 393**

The course covers various aspects of the C language such as: Arrays, strings, pointers, structures, etc. The second part of the course introduces UNIX operating systems. Topics include: I/O, redirection, processes, shell scripts, etc.

Note: It is recommended students take CCPS 109 prior to taking this course.

52 Hours

Fee: \$675.41

★ **Database Systems I** **CCPS 510**

Prerequisite(s): CCPS 305

Advanced file management techniques involving fundamentals of database organization, design and management. Emphasis is given to Relational Database Management Systems including relational algebra, normal Forms, physical Database Structures and their implementation, and Relational Database Languages. Other types of Database Managers are also discussed such as Hierarchical, Network and Inverted Files.

52 Hours

Fee: \$783.62

★ **Introduction to Operating Systems** **CCPS 590**

Prerequisite(s): CCPS 393

Introduction to O/S (system calls, interrupts, synchronous and asynchronous traps, O/S structure), using processes (process communication and synchronization), primitive communications (signals and signal management calls), pipes, messages, semaphores, shared memory, memory management, file systems, and (time permitting) remote procedure calls.

52 Hours

Fee: \$857.88

★ **Database Systems II** **CCPS 610**

Prerequisite(s): CCPS 510

Transformations of Relational to Network and Hierarchical Models and vice versa. Embedded DB languages, Concurrency Control, Recovery Procedures, Security and Integrity of DBS. Transaction Processing. Database Machines, Front-end Subsystems, Admin. Facilities. Distributed Databases: Concurrency Control through Locking, and Recovery. Also, discussed: The Nested Relational Model, The Semantic DB Model, The O-O DB Model and the Logic Based/Expert DB Systems.

52 Hours

Fee: \$783.62

★ **Human-Computer Interaction** **CCPS 613**

Prerequisite(s): CCPS 209 or Direct Entry

This course introduces the concepts of human-computer interaction and usability testing. Topics include: human information processing, usability principles, models of interaction, user interface paradigms, design of user interfaces. Students will also learn how to develop Graphical User Interfaces using a specific User Interface Management system. (2 hr. Lab every other week).

52 Hours

Fee: \$783.62

★ **Computer Networks I** **CCPS 706**

Prerequisite(s): CCPS 590

Internet, the network edge, the network core, delay, loss and throughput, protocol layers. Application Layer: principles of network applications, web. Transport Layer -UDP, connection oriented transport TCP, TCP congestion control. Network layer -The internet protocol (IP): Forwarding and addressing in the Internet. Routing algorithms. The link layer and local area networks.

39 Hours

Fee: \$570.38

☉ **Data Access and Management** **CKCS 110**

The course focuses on data querying and reporting techniques as well as data mining and cleaning techniques. Students will receive an overview of Database Management Systems (DBMS), and learn the differences between database architectures, the role of data and database administrators, fundamental concepts, and need for data warehousing.

Note: Computer Requirements: Students in the Data Analytics, Big Data, and Predictive Analytics certificate should consult the attached flyer for computer requirements.

39 Hours

Fee: \$789.25

NEW

CEH CISA CCE Comp Sec Exam Prep **CKCS 160**

This course provides exam practice for the knowledge and skills required to manage information systems' vulnerabilities, leverage standards, ensure security compliance, offer solutions, institute information systems control, and deliver value around information systems' security and protection to the enterprise. The course also provides functional skill acquisition and exam practice in how to examine and apply practically the competencies of forensic computer examiners while adhering to the best ethical practice of digital forensics.

39 Hours

HST included

Fee: \$880.25

☉ **Introduction to Computer Applications** **CKCS 200**

This course is a general introduction to Computer systems. Topics include the software development process and lifecycle, application testing, hardware, software, databases and the Internet. Students are also exposed to directory structure, compression, secure storage of files, encryption, and security and safety issues.

39 Hours

Fee: \$789.25

☉ **Mathematical Modeling: Introduction to MATLAB** **CKCS 210**

The goal of this course is to provide a simple overview and introduction to MATLAB. The course is broken up into some of the basic topics. The first includes a few examples of how MATLAB makes it easy to create and manipulate vectors. The course moves from simple topics to more advanced topics.

39 Hours

Fee: \$789.25

NEW
**Mathematical Modeling:
Statistical Analysis Utilizing SPSS**

CKCS 220

The goal of this course is to provide a simple overview and introduction to SPSS. The course will cover the basic topics such as entering and manipulating data, analysing data and describing relationships, and creating charts and outputs.

39 Hours

Fee: \$789.25

NEW

Product Design and Ideation

CKCS 230

Understand the elements of form and the principles of composition to create attractive prototypes and products with a 3-D printer. Learn to effectively use the elements of form, study the impact of compositional approaches, and discover how to generate dimensionally powerful and effective product design concepts that translate effectively when printed in 3-D. Participate in a series of design activities, discussions, and brainstorming sessions to deepen your capacity to leverage 3-D printing and agile prototyping.

Note: No previous drawing experience is required.

Supplies to be purchased by the student: Students are required to purchase drawing materials.

39 Hours

HST included

Fee: \$880.25

NEW

Product Design for 3-D Printing

CKCS 231

Product design drawing is an essential skill in communicating product concepts prior to engaging in 3-D printing of a prototype. Develop an understanding of industrial design drafting techniques for both digital and analog applications. Learn methods of representation, communication, idea generation, development of form, and perspective - from iteration in product design to final 3-D printing of a product's prototype. Complete the course with a 3-D model design ready for printing at the 3-D Printing Lab.

Note: It is recommended that students take CKCS 230 or have equivalent drawing experience prior to taking this course.

Students must own or have access to a tablet, tablet pen, and an external hard drive.

39 Hours

HST included

Fee: \$880.25

NEW

3-D Animate, Model, Print Design

CKCS 232

Learn how management, engineering, and industrial design converge in the conception and design of a physical product. Develop a simple product prototype, learn to identify customer needs, define a product's architecture, and use proven methodologies to design for manufacturing. Through hands-on practice, explore Autodesk's Maya-based Mudbox and acquire a broad understanding of the 3-D tools essential for product design. Complete the course with a 3-D model design ready for printing at the 3-D Printing Lab.

Note: It is recommended that students take CKCS 230 or have equivalent drawing experience prior to taking this course.

Students must own or have access to a Autodesk Mudbox, a laptop loaded with this software, and an external hard drive.

39 Hours

HST included

Fee: \$880.25

NEW

3-D Print, Sculpt, SOLIDWORKS

CKCS 233

Learn to utilize high-level digital sculpting functionality to add detail to your 3-D modeling and texturing for designing products. This introduction to organic sculpting workflow with surface modelers touches on various techniques for model creation and manipulation, from basic to detailed (Autodesk Mudbox, as well as traditional sculpting techniques from a character modeler to an anatomy specialist). SOLIDWORKS is the industry-standard software for industrial and product designers due to its powerful 3-D modeling capabilities.

Note: It is recommended that students take CKCS 230 or CKCS 231 or have equivalent drawing experience prior to taking this course.

Students must own or have access to a SOLIDWORKS, Autodesk Mudbox, Zspheres, DynaMesh, a laptop loaded with this software, and an external hard drive.

39 Hours

HST included

Fee: \$880.25

NEW

3-D Printing and Visualization

CKCS 234

Aspiring and current product designers interested in developing a digital skill set in creating product designs and realizing them in 3-D take part in a series of hands-on activities using cutting-edge 3-D modeling software such as Pixologic ZBrush and Autodesk Mudbox. These techniques have relevance in a wide range of manufacturing industries and product development and service sector applications. Complete the course with a 3-D model design ready for printing at the 3-D Printing Lab.

Note: It is recommended that students take CKCS 233 or have equivalent drawing experience prior to taking this course.

Students must own or have access to a SOLIDWORKS, Pixologic Zbrush, Autodesk Mudbox, Zspheres, DynaMesh, a laptop loaded with this software, and an external hard drive.

39 Hours

HST included

Fee: \$880.25

Object Oriented Applications Programming

CKCS 612

Prerequisite(s): CCPS 311

This course continues the study of C++ and object-oriented programming. The course provides an in-depth look at the C++ programming language including expressions, statements, declarations, declarators, classes, derived classes, member access control, special member functions, overloading, templates, exception handling, and pre-processing directives. The standard C++ library, including strings, localization, containers, integrators, algorithms, numerics, and input/output, will also be examined.

39 Hours

Fee: \$789.26

Object Oriented Project Development

CKCS 613

Prerequisite(s): CCPS 311

This course applies object-oriented concepts to the design and development of a real-world application. The complete OO software development life cycle is realized through a series of lectures and hands-on workshops. Course topics include CRC modeling, use-case scenarios, OO project management, and OO user interface development. A term project using Java is an important component of the course.

39 Hours

HST included

Fee: \$789.26

❖ **Introduction to C++** **CKCS 900**

This is a fast-paced introductory course to the C++ programming language. It is intended for those with little programming background, though prior programming experience will make it easier, and those with previous experience will still learn constructs and concepts specific to C++. Every student will bring a laptop with WiFi to each class.

39 Hours HST included Fee: \$789.26

❖ **Introduction to Cloud Computing** **CKCS 901**

This course introduces students to the principles and intricacies of cloud computing and provides hands-on experience in cloud development and deployment. This curriculum will be based on the Windows Azure cloud platform, with some comparison to other cloud platforms such as Hadoop and Google App Engine. Every student will bring a laptop with WiFi to each class.

39 Hours HST included Fee: \$789.26

❖ **Digital Speech Processing** **CKCS 902**

This course covers the basic principles of digital speech processing, including: the fundamentals of speech production and perception; basic techniques for digital speech processing; speech estimation methods; and applications of speech signal processing. A MATLAB-based term project concludes the course. Every student will bring a laptop with WiFi to each class.

39 Hours HST included Fee: \$789.26

❖ **Fundamentals of Speech Recognition** **CKCS 903**

This course covers the basic principles of digital speech processing, including: automatic speech recognition; speech production and perception; pattern recognition; linear and non-linear classifiers; signal processing approaches and methods; pattern recognition applied to ASR; time alignment and normalization; dynamic time warping; Hidden Markov Model (HMM) fundamentals; speech system design; connected word models; dynamic programming; large vocabulary speech recognition; and flexible speech understanding. Every student will bring a laptop with WiFi to each class.

39 Hours HST included Fee: \$789.26

❖ **Introduction to Eye Tracking** **CKCS 904**

This is a general introduction to eye movements, eye tracking, eye trackers, eye tracking equipment, and eye tracker software applications. This course also covers how to operate eye tracking software. Students will obtain hands-on experience using eye tracking comprehensive analysis software. Every student will bring a laptop with WiFi to each class.

39 Hours HST included Fee: \$789.26

❖ **Contracting for Cloud Computing** **CKCS 905**

This course covers implementing, planning, or considering adopting a cloud computing solution, including IT professionals; business managers; procurement and sourcing personnel; and other professionals, such as lawyers, auditors, and risk managers. The course examines what cloud computing is and the essential paradigm shift it presents; the benefits and risks of cloud services, and how to mitigate these risks; how to prepare to acquire these services; analyzing and evaluating cloud services options; and negotiating and managing a service contract.

39 Hours HST included Fee: \$789.26

NEW

❖ **Fast Track in SEO** **CKCS 910**

Successful online shopping websites for products and services rely on relevant traffic from search engines, achievable through Search Engine Optimization (SEO). SEO skills are learned through project-based applications, where activities are completed and objectives met that build on an actual ecommerce SEO project. Techniques learned relate to key word selection, key word placement, refactoring website content, and optimization methods for SEO. Results are run through a captive search engine simulation to improve a site's search rankings.

39 Hours HST included Fee: \$789.26

NEW

❖ **Data Analytics for Non-Data Analyst** **CKCS 911**

This course is designed to give non-data analysts an overview of big data, the state of the practice in analytics, the role of the data scientist, big data analytics in industry verticals, and analytics lifecycle as an end-to-end process. It focuses on key roles for a successful analytic project's main phases of the lifecycle, developing core deliverables for stakeholders, team work skills, and problem solving skills. This course aims at providing professionals the ability to make effective decisions in a data-driven manner.

39 Hours HST included Fee: \$789.26

Computer Security and Digital Forensics

Related certificate(s): Computer Security and Digital Forensics

🔗 **Computer Network Security** **CKDF 110**

This course introduces fundamental concepts and notions of computer security, focusing on security threats, vulnerabilities, and available defense mechanisms. Students are exposed to ethical hacking, use of hacking methods for computer network vulnerability assessment and penetration testing. Various protection methods will be presented including auditing systems, monitoring techniques, and various Intrusion Detection Processes and technologies used for discovery of hackers and advance notice of cyber threats. Students will apply what they learn in scenario-based projects.

Note: Knowledge of TCP/IP is recommended.

Students must have a Windows or Linux computer operating system; the Apple (Mac) operating system is not supported by this course.

39 Hours Fee: \$756.40

🔗 **Computer Cryptography and Digital Steganography** **CKDF 120**

This course introduces the fundamentals of modern cryptography as related to computer security and digital forensics, including the techniques of steganography, watermarking, digital signatures, and public key cryptography. Students will learn both the theory of cryptographic protection and the practicalities of properly implementing crypto-protection in the field, as well as how forensics experts deal with encrypted information. Students will apply what they learn in scenario-based exercises and projects.

Note: Knowledge of TCP/IP is recommended.

Students must have a Windows or Linux computer operating system; the Apple (Mac) operating system is not supported by this course.

39 Hours Fee: \$756.40

🔗 Digital Forensics Systems

CKDF 130

This course introduces digital forensics notions and techniques. Students will gain a basic understanding and legal awareness of computer security and forensics, techniques used in the evidentiary process, various methodologies intrinsic to computer forensics with emphasis on computer incident response, and IT systems protection. The importance of ethics, understanding rules of evidence, effective communications, key elements of research and seizure relative to privacy legislation will also be discussed. Students will apply what they learn in scenario-based projects.

Note: Knowledge of TCP/IP is recommended.

Students must have a Windows or Linux computer operating system; the Apple (Mac) operating system is not supported by this course.

39 Hours

Fee: \$756.40

🔗 Security Architecture and Design

CKDF 140

This course addresses security architecture and design by considering case studies. In addition, the course will survey computer security frameworks, controls and objectives, and standards and pronouncements. Methods of threat risk assessment (TRA) will be reviewed, with particular emphasis on social and human factor engineering, hacker profiling, and risk management. Security policies and procedures, enforcement, and monitoring will also be covered. Students will apply what they learn in scenario-based exercises and projects.

Note: Knowledge of TCP/IP is recommended.

Students must have a Windows or Linux computer operating system; the Apple (Mac) operating system is not supported by this course.

39 Hours

Fee: \$756.40

NEW

🔗 Certified Information Systems Security Professional (CISSP)

CKDF 145

The International Information Systems Security Certifications Consortium, Inc. [(ISC)²] is a global organization offering a certificate recognizing an international standard for information security and a Common Body of Knowledge (CBK). Offering a unique Canadian perspective, this course examines the ten information security (IS) domains, helping learners prepare for the CISSP certification exam. CBK topics include: Software Development, Telecommunications, Operations, Network and Environmental Security, Access Control, Continuity and Disaster Recovery Planning, and Cryptography. (Formerly CXCC 110.)

39 Hours

HST included

Fee: \$756.40

🔗 Digital Forensics Investigation

CKDF 150

Prerequisite(s): CKDF 110, CKDF 120, CKDF 130, CKDF 140, and CZLW 120

This capstone course provides a hands-on opportunity for students to utilize what has been learned throughout the program: identifying vulnerable system resources; devising security controls, policies, and procedures within the context of a security architecture and design; selecting and deploying appropriate hardware/software controls and countermeasures to reduce exposure; and implementing a cohesive security environment which includes monitoring, feedback, and metrics. Participants will complete a practical project related to computer security and/or digital forensics.

Note: Knowledge of TCP/IP is recommended.

Students must have a Windows or Linux computer operating system; the Apple (Mac) operating system is not supported by this course.

39 Hours

Fee: \$756.40

Computer Security Fast Track

CKDF 999

This intensive program offers students a fast track to completion of the Certificate in Computer Security and Digital Forensics. With over 12 weeks of intensive, full-time study, participants will complete all six courses required to earn the certificate.

Note: To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further information, contact Academic Coordinator Alex Ferworn at afferworn@ryerson.ca.

234 Hours

Fee: \$4575.49

CRIMINAL JUSTICE AND CRIMINOLOGY

Students will become familiar with the structural, administrative, political, and professional context of the criminal justice system and its related agencies, while also gaining an appreciation for the complex causes and consequences of crime in Canadian society.

Criminal Justice and Criminology

Related certificate(s): Community Engagement, Leadership, and Development, Criminal Justice and Criminology, Ethics, Social Sciences and Humanities Foundations

★ Introduction to Canadian Criminal Justice **CCRM 100**

This course introduces students to the administrative and institutional components of the Canadian criminal justice system and the principles that govern it. The course will be organized around the police, courts, correctional systems, and will take a critical approach to both the formal principles of justice as they apply to this system, as well as how they are woven into the process at various stages. (Formerly JUS 300.)

39 Hours

Fee: \$595.84

☆ Understanding Crime in Canadian Society **CCRM 101**

Antirequisite(s): CCRM 102

This course is designed to give students the background and knowledge to think critically about information on crime and the social response to it in Canada. Students will learn about how we come to know about crime and criminality, and will conclude with a detailed analysis of one or more specific crimes (eg. homicide, prostitution or illicit drug use) in order to apply the concepts and materials presented throughout the term. (Formerly JUS 101.) CRM 101 is not available for credit to students who choose CRM 100 or CRM 102. (LL)

39 Hours

Fee: \$595.84

★ Introduction to Criminology **CCRM 102**

Antirequisite(s): CCRM 101

This course provides a foundation for the theoretical, conceptual and policy considerations related to crime and justice in Canada. Students will be introduced to the main theoretical approaches to understanding crime (classical, positivist and critical theories), and the various ways in which each has shaped criminal justice policy in Canada. These issues will be brought together through an in-depth analysis of one or two current topics.

39 Hours

Fee: \$595.84

★ Criminal Law **CCRM 200**

*Prerequisite(s): CCRM 100 or (LAW 534 and in Law and Business program);
Antirequisite(s): LAW 400*

Students are introduced to the basic concepts and substance of the criminal law in Canada. The historical and theoretical foundations of criminal law, elements of an offence, and criminal defenses are considered. The role of criminal law in society, and its intersection with other forms of social regulation are highlighted. This course is not a technical legal course in criminal procedure; rather, it provides students with basic knowledge of criminal law in Canada.

39 Hours

Fee: \$613.88

★ Victims and the Criminal Process

CCRM 202

Prerequisite(s): CCRM 100

This course has two emphases: theory and research on the nature of criminal victimization in Canada, and the role and experiences of victims of crime in the Canadian criminal justice system. The intersection of victimization with gender, race, class and other forms of social inequality will provide the context for an analysis of the extent to which the current criminal justice system does, or can, meet the broad range of victim needs. (Formerly JUS 601.)

39 Hours

Fee: \$579.93

★ Policing in Canada

CCRM 300

Prerequisite(s): CCRM 100 and CCRM 102

Students are introduced to the concept of “policing” and the institutional and non-institutional forms it may take. The intersection of the uniformed, public police with other policing bodies, police discretion, culture and issues of accountability and governance are central to this course. The role of communities and developments in the global context provide the context for analysis of the future of democratic policing.

39 Hours

Fee: \$576.75

★ Youth Justice in Canada

CCRM 304

Prerequisite(s): CCRM 100 and CCRM 102

This course considers the theoretical and policy issues which relate specifically to young people in conflict with the law and their intersection with legal systems in Canada. The focus of the course will be on an analysis of the historical development of a separate legal system for dealing with youthful offenders and the changes in discourses around youth crime that have been reflected in reforms to that system.

39 Hours

Fee: \$576.75

★ Corrections in Canada

CCRM 306

Prerequisite(s): CCRM 100 and CCRM 102

Students are introduced to the philosophical trends and approaches within the correctional system in Canada. The focus will be on understanding the historical and political context of correctional practices and their impact on specific populations, such as women, Aboriginal people, and racialized communities. We end with an analysis of correctional practices in other jurisdictions, including capital punishment and the development of alternative approaches.

39 Hours

Fee: \$576.75

★ Criminal Courts in Canada

CCRM 308

Prerequisite(s): CCRM 100 and CCRM 102

The focus of this course is on the structure and function of the criminal courts in Canada, with particular emphasis on the points of tension at various stages. Rather than being a course on the technical aspects of criminal prosecution, points of tension in the process will be considered through an analysis of a variety of topics, including pre-trial detention, sentencing, plea discussions and the wrongfully convicted.

39 Hours

Fee: \$576.75

★ **Ethics in Criminal Justice**

CCRM 322

Prerequisite(s): CCRM 100 and CCRM 102

This course introduces students to the ethical foundations of justice, and their implications and applications at various junctures in the criminal justice system. Ethics in public and private policing, the legal profession (defense, prosecution, judiciary), and punishment are given in-depth consideration. Emphasis will be placed on a case study approach, and student-led analyses.

39 Hours

Fee: \$576.75

★ **Criminal Justice and Social Inequality**

CCRM 402

Prerequisite(s): CCRM 100 and CCRM 102;

Antirequisite(s): JUS400

This course examines various form of social inequality as they intersect with the criminal justice system in Canada. The course will challenge the notion of an objective, value-neutral criminal justice system, and will consider the impact of operational and policy decisions on race, class, gender and other forms of social inequality. Topics will include systemic racism, gender discrimination, the over-representation of people who live in poverty and other relevant issues.

39 Hours

Fee: \$576.75

☆ **Violence in Society**

CCRM 601

This course is designed to provide students with the skills to think critically about various forms of interpersonal violence and the social response to it. The course will conclude with a detailed analysis of the major policies which have emerged to deal with violence, such as zero tolerance policies, traditional approaches to crime prevention, increasing criminal sanctions and, finally, the implementation of alternatives to the criminal process. (UL)

Note: This course is no longer available for credit towards the graduation requirements for the Criminal Justice and Criminology certificate program.

39 Hours

Fee: \$570.38

DESIGN FOR ARTS AND ENTERTAINMENT

These interdisciplinary courses will appeal to students interested in the comparative study of design for the performing arts in a range of media, including live theatre, television, animation, new media, and special events.

Design for Arts and Entertainment

For information regarding other courses featured in the Design for Arts and Entertainment certificate, see Communication, English, Fashion, Film Studies, Interior Design, Lighting Design, New Media, Photography, and Theatre. Related certificate(s): Design for Arts and Entertainment

★ **Drafting for Entertainment**

CDID 170

Students will be introduced to the basic elements of drafting and its practical application to describing scenographic space, including: theatre, film, television, new media and site-specific installations, staged photography, and virtual scenery. Special attention will be given to the similarities and differences of staging between the media, with consideration given to sightlines and POV, safety and ergonomics, and special scenic effects. Plans, direct elevations, elevations, sections, isometric drawings, and storyboards will be explained and practiced. This course will enable students to describe their design interpretations in CDMP 122 and CDMP 123. (Equivalent to one Professional elective from Table I, see Undergraduate Program Calendar.)

39 Hours

Fee: \$606.45

★ **History of Arts and Scenography**

CDMP 130

This course will study scenography as a parallel progression with a cross-cultural survey of the arts. Organized along major world belief systems, students will familiarize themselves with visual and aural culture as it is expressed in art, music, architecture, fashion, and decorative arts. From sacred space to 21st Century media, students will examine how the elements of early spiritual dance evolved with emerging technologies and changes in religious, societal, and political systems. Students will learn to recognize cultural and scenographic trends as they conduct primary and secondary source research. The scenographic tradition will be addressed in terms of ceremony interpreting text for constructed or virtual worlds, relationship-building in communities, and collaborative work structures. The lexicon of scenographic technologies and styles will also be examined as a reflection of world culture. Weekly lectures and visual and aural research will enable students to create a personal textbook of sources to use for designing productions. (Equivalent to one Professionally Related elective from Table II, see Image Arts in the Undergraduate Program Calendar.)

39 Hours

Fee: \$606.45

DESIGN MANAGEMENT

With an appreciation of design and business fundamentals, design managers create and maintain collaborative relationships among designers, clients, and administrators. Their contribution is an essential factor in the success of their organizations.

Design Management

It is preferable to start the Certificate in Design Management with CDDM 101 or CDDM 102. Related certificate(s): Design Management

★ Introduction to Design Management **CDDM 101**

This course is an introduction to design management principles and best practices. It explores the link between design and the managing of design business activities. It outlines the function of the design manager as the orchestrator of other creative professionals including designers, technologists, and administrators. Topics include leadership and team building; multidisciplinary alliances; client relationships; designer/client contracts; the studio environment; and corporate culture and organizational frameworks. (Equivalent to IDE 302.)

39 Hours

Fee: \$617.06

★ Design Management II **CDDM 102**

This course continues the study of design management and the role of the design manager. It explores strategies for leveraging the skills of designers in various industry sectors. Topics include integrating the design function with business strategy, applying user-centred design to achieve organizational goals, design's critical role in innovation, technology in design, and effective project management. (Equivalent to one Professional elective from Table I, see Interior Design program in Undergraduate Program Calendar.)

39 Hours

Fee: \$617.06

🔗 Design Management Project **CDDM 103**

Prerequisite(s): Department consent

This independent research course allows students to integrate, apply, and reflect back on the knowledge insights gained throughout the Design Management program. Students choose a research topic in consultation with the course instructor. Research topics should relate to aspects of design management explored in the program and might include design for competitiveness, socially responsible design, design's role in mitigating negative environmental impacts, or design innovation in an organizational context.

39 Hours

Fee: \$619.42

🔗 Design Awareness I **CDDM 104**

This course is an introduction to the fundamental aspects of design. It explores the various definitions and meanings of the word "design." As design is a tool for examining our culture and our environment, this course may include topics such as: why we design as a response to meet needs; what affects design and what design affects; government, political, and corporate influences on design; universal design; ecologically responsible design; sustainability issues in design; and design in a global context.

39 Hours

Fee: \$649.09

🔗 Design Research

CDDM 106

This course provides an opportunity for students to investigate a problem of critical interest to design management in any field of design specialization. It stresses individual study, self motivation, the skills required to research information, oral and written presentation. To prepare for the research, the course may include an introduction to design research: planning the research process, defining research objectives, data collection, analyzing data, sources of information, using databases, and presenting the findings. Students will define and investigate a problem with either a Ryerson faculty member, an independent consultant, or an industry supplier/manufacturer.

39 Hours

Fee: \$649.09

DIGITAL ENTREPRENEURSHIP INNOVATION

★ Digital Skills and Innovation for the Global Economy CEID 100

This course will introduce students to the use of computers, the Internet, and an extensive set of digital tools in order to develop a working knowledge of digital technologies, and learn techniques for assessing various forms of knowledge media intended for a wide variety of disciplines. Students will be expected to explore and understand the appropriate use of digital technologies, critically review the role of technology and media in career development and the broader society, and to demonstrate understanding of how digital media can be integrated into their own projects and processes or those of the industry sector.

39 Hours

Fee: \$856.82

DISABILITY STUDIES

Disability Studies focuses on society's definition of and response to disability. Students explore the social context and experiences of persons with disabilities.

Disability Studies

Related certificate(s): Accessibility Practices: AODA and Beyond, Community Engagement, Leadership, and Development

★ A History of Madness

CDST 500

Where do diverse concepts of "madness" come from? How have these ideas changed over time? How have "mad people" interpreted their own experiences? This course will be in the tradition of social history from "below". It will survey the social medical, political, economic, cultural and religious factors that have influenced interpretations of what it means to be "mad" from ancient time to the present. (UL)

39 Hours

Fee: \$593.72

★ Rethinking Disability

CDST 501

This foundation course introduces the core ideas students will explore throughout their studies. It immerses students in a highly participatory and provocative encounter with history, social theory, politics, policy, art and culture seen through a disability lens. Course content is designed to reflect the experience of people with disabilities, highlighting the social roots and impact of discrimination, exclusion and marginalization as well as responses of resistance.

39 Hours

Fee: \$595.84

★ Disability and the State

CDST 502

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

This course begins with students' day-to-day experience of "policy", moving towards deeper examination of the underlying values, interests and institutions that shape social and disability policy. Students are guided to make comparisons and connections, looking at historical responses to disability and at contemporary programs and services. Readings and online presentations explore what policy means, why it matters, and what processes and strategies are activated by people with disabilities to influence, shape and reform social policy.

39 Hours

Fee: \$595.84

★ Mad People's History

CDST 504

This course will provide an overview of the history of madness from the point of view of people who were, and are, deemed "mad". The purpose of this course is to place the diverse perspectives of people diagnosed as mad, insane or mentally ill as being of central importance in the history of psychiatry, and to address the question: how madness has been viewed by mad people over the centuries.

39 Hours

Fee: \$593.72

★ **Making Ontario Accessible** **CDST 506**

The Accessibility for Ontarians with Disabilities Act (AODA) mandates development of enforceable accessibility standards for businesses and organizations to identify, remove and prevent barriers to accessibility. This course is for those seeking specialized knowledge of the AODA, accessibility issues and implementation. It covers understandings of disability, issues giving rise to the Act, disability activism and a critical analysis of the new accessibility standards for customer service, built environments, employment, information and communications and transportation.

Note: Students who are unable to attend the presentation day should contact the instructor directly at csilverman@ryerson.ca to make alternate arrangements.

39 Hours Fee: \$593.72

★ **Rethinking Images of Embodied Difference** **CDST 525**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

This course critically examines representations of embodied difference in mainstream and other media. With particular attention to disability, it queries images from the news, on television, film and the web as they are embedded in the systems of ableist power, privilege and marginalization. To study these images is to reveal their ideological underpinnings, and their intrinsic connection to other categories of identity including class, race, gender, and sexual orientation.

39 Hours Fee: \$593.72

★ **Disability and The Law** **CDST 603**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

This course is constructed around 'fact' situations, illustrative of real-life dilemmas faced by disabled people, their families, advocates and service providers. How to find and use the law will be explored as will the often competing issues of independence, dignity, personal and economic security. Students will analyze when the law may help or hinder, and how it may be changed.

39 Hours Fee: \$593.72

★ **Current Topics in Disability II** **CDST 604**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

This course will provide students with a further opportunity to engage in an in-depth examination of specialized and scholarly work within the disability studies field. Content will be chosen by the Instructor based on recent research and trends in the field.

39 Hours Fee: \$593.72

★ **Strategies for Community Building** **CDST 613**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

This course addresses the importance of community building given the realities of social exclusion and the challenges represented by diversity in the current social, political and economic context in Canada. The starting point is the particular view of reality held by people with disabilities. Students are encouraged to analyze power, inequality and influence before building strategies for action, and to develop a personal ethical stance in which to ground community development practice.

39 Hours Fee: \$593.72

★ **Community Access and Technology** **CDST 614**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

Students are introduced to assistive technologies, their impact on people with disabilities, models of use, public policy and legislation (local, federal, international). In addition to online readings and exploratory assignments, students participate in online discussion forums and live weekly e-chats with leaders in the assistive technology field. The final project offers students an opportunity to explore a technology of interest in the context of addressing an unmet need or burning issue in their community.

Note: Students who are unable to attend the presentation day should contact the instructor directly at csilverman@ryerson.ca to make alternate arrangements.

39 Hours Fee: \$593.72

★ **The Politics and Practice of Interventions** **CDST 725**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921

In recent years, interventions directed at disabled people have been the subject of debate, controversy and resistance. This course explores these tensions by tracing various approaches to creating change in the lives of disabled people. Students will use sociological analysis, theories of disability/difference, autobiographical knowledge and consultation to critique examples of contemporary interventions and to explore potentially more positive alternatives.

39 Hours Fee: \$593.72

★ **Leadership in Human Services** **CDST 726**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921;

Antirequisite(s): CDST 727

This course illuminates many challenges that leaders and managers of human services face in a changing environment. It incorporates theoretical and practical elements rooted in the perspective that people supported by human services require opportunities to lead dignified lives and the means to exercise personal choice, control and independence. Students will examine the complex issues raised when those receiving services, managers, and activists interact to design, organize and change traditional models of delivering services and supports.

39 Hours Fee: \$593.72

★ **Leadership for Social Action** **CDST 727**

Prerequisite(s): CDST 501 or CINT 902 or CSWP 921;

Antirequisite(s): CDST 726

This course looks at leadership theory and the challenges of leading in neo-liberal times. It touches on political discourse, public policy and the legislative process. It examines the problem of working across differences and complicates empowerment. Students will meet and talk with leaders from social movements. By the time students complete their assignments, they should be able to imagine themselves as leaders and be better able to assist disabled people in becoming leaders.

39 Hours Fee: \$593.72

⦿ AODA Capstone Synthesis

Prerequisite(s): Department consent

This course is individually tailored to students' learning objectives and brings together and deepens the skills and knowledge garnered in the preceding AODA: Principles and Practices of Accessibility certificate courses. It provides opportunities for students to engage in focussed, scholarly, and project work from a disability studies perspective.

Note: This course is taken after all other requirements within the Certificate in Advancing the AODA: Principles and Practices of Accessibility.

Students are encouraged to contact the academic coordinator, Charles Silverman, at csilverman@ryerson.ca to plan their capstone enrollment.

39 Hours

CVDS 200

Fee: \$595.73

DISASTER EMERGENCY MANAGEMENT

This program is designed for existing and aspiring disaster management and emergency services professionals and first responders who wish to upgrade their education, pursue career opportunities, or perform volunteer work. Courses provide broad knowledge, case studies, and hands-on application within the local, provincial, federal, and international sectors of disaster and emergency response.

Disaster Emergency Management

Related certificate(s): Computer Security and Digital Forensics, Disaster and Emergency Management

⦿ Principles and Practices of Emergency Management

CKDM 100

This course provides an introduction to the basic concepts of emergency management with core elements common to all provinces and territories across Canada. A series of principles will be introduced with reference to current practice. This course provides an introduction to the legal basis for Emergency Management nationally, regionally, and locally. The course is designed for participants from all levels of government, emergency measures/management coordinators, and/or planners, emergency responders, volunteers, private sector representatives, etc.

39 Hours

Fee: \$756.40

⦿ Project Management in Disaster Recovery

CKDM 105

This course introduces students to the theory and practice of project management and its applicability to disaster recovery and disaster reconstruction. It takes a problem-solving approach to planning, budgeting, implementing, and completing small and large-scale projects. Numerous disaster recovery case studies will be used to ensure ease in applying course knowledge to real-life situations.

39 Hours

Fee: \$756.40

⦿ Law of Disaster and Emergency Management

CKDM 110

This course sets out the legal framework for emergency management in Canada. Students involved in emergency management will understand their own legal duties and powers as well as those of others. The primary legislation requiring the preparation of emergency management systems for government and private sector entities will be examined in depth.

39 Hours

Fee: \$756.40

⦿ Intl Policies and Disaster Coord

CKDM 115

This course analyzes different international and local agency participants' disaster responses, existing systems, and institutions. National and international policies, laws, and best practices as they apply to approaches to international disaster response coordination are interpreted through case studies from different countries and jurisdictions. It builds competencies for disaster coordination of operations on an international level and applies the learnings to case studies and simulations of cross-border disaster coordination projects across governmental, international, and nonprofit organizations.

39 Hours

Fee: \$756.40

☼ Emergency Operations and Incident Management CKDM 120

This course prepares emergency management practitioners to carry out their roles as members of an Emergency Operations Centre (EOC) team. This course presents strategies for effective management and coordination of overall operations within their communities during a multi-service response to an emergency. In addition, participants will be introduced to the Incident Command System that provides responders and supporting agencies with a standardized method of managing any kind of emergency incident.

39 Hours

Fee: \$756.40

☼ Critical Analysis of Operations CKDM 130

In this course students will gain an understanding of Operations in relation to EM practice. The range of potential actions is introduced during the pre-impact and impact phases of an emergency. Current legislation, emergency prevention, communications during emergencies, current pre-impact arrangements, the roles, responsibilities, and authority of the Emergency Services and specifically what actions could be taken during the impact phase of an emergency/disaster will be discussed in relation to several case studies.

39 Hours

Fee: \$756.40

☼ Emergency Management Planning CKDM 140

This course introduces emergency management planning. It examines the planning process, the specification of emergency management needs, resource availability, needs ratification, organizational design, the selection of emergency management strategies, and planning implementation.

39 Hours

Fee: \$756.40

☼ Risk Management CKDM 150

This course presents the principles, structures, and processes of risk management. Methods for applying general risk management theory, best practices and resources to the different phases of emergency management will be discussed. Emphasis is placed on the application of risk management strategies in mitigating and preparing for disasters and major emergencies.

39 Hours

Fee: \$756.40

☼ Emerging Issues CKDM 160

Prerequisite(s): Department consent

This capstone course is intended as a synthesis of emergency and disaster management concepts and perspectives learned in the previous courses taken in the program and applied to a real-world area of interest. Students will create an original report based on a project they select. Working with a faculty supervisor, participants will define a project topic. Project topics can come from a wide variety of areas but must be executed with an Emergency Management perspective.

Note: This is a project-based, independent study course.

39 Hours

Fee: \$756.40

Disaster and Emergency Fast Track CKDM 999

This intensive program offers students a fast track to completion of the Certificate in Disaster and Emergency Management. With over 12 weeks of intensive, full-time study, participants will complete all six courses required to earn the certificate.

Note: To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further information, contact Academic Coordinator Alex Ferworn at aferworn@ryerson.ca.

234 Hours

Fee: \$4538.40

EARLY CHILDHOOD STUDIES

These courses introduce you to the challenging field of early childhood education. Whether working with children who have special needs or those from different ethno-racial backgrounds, diversity is key. Those who flourish in the field know that teaching, assessing, and guiding children begins with an understanding of the Canadian cultural mosaic. Early childhood educators' contribution to society is immeasurable.

Early Childhood Studies

This direct entry program for ECS diploma graduates from the CAATs builds on students' knowledge of child development and curriculum. For further information on courses, prerequisites, and admission to the ECS degree program, call the School of Early Childhood Studies at 416.979.5306 or visit the website. Related certificate(s): Aboriginal Knowledges and Experiences, Accessibility Practices: AODA and Beyond

☆ **Cognitive Development** **CCLD 307**

Prerequisite(s): (CCLD 103 and CPSY 102) or Direct Entry

This course explores the development of young children's thinking and learning. A critical analysis of cognitive theory and research and their relevancy to instructional practice will provide students with an in-depth understanding of early thinking and learning processes. The role of the professional in early learning contexts and the guidance of children's cognitive growth will be examined. Topics of discussion include the development of attention, memory, symbolic representation, reasoning, problem solving, social cognition, cultural perspectives and individual differences.

39 Hours

Fee: \$589.48

☆ **Literacy in the Early Years** **CCLD 314**

Prerequisite(s): CLD 212 or Direct Entry

This course examines literacy learning for children birth through 8 years in the context of equity, social justice and diversity. Students examine theoretical foundations of early literacy learning including: ways to develop oral and print literacy, family literacy practices, home languages, book genres, approaches to teaching and learning and strategies for critical literacy. Concepts of multimodalities and multiple literacies are explored to broaden the notion of what is literacy in the 21st century.

39 Hours

Fee: \$589.48

☆ **Creative Arts II** **CCLD 315**

Prerequisite(s): CLD 215 or Direct Entry

Building upon Creative Arts I, this course emphasizes strategies, methods and activities for young children in music, movement and drama. Theories of the development of aesthetic sensibility and creativity in young children are explored and applied to the study of the theoretical bases for music education and global musical traditions. Music, movement, and drama education programs are critically analyzed along a number of dimensions to develop a philosophy and approach to music, movement and drama education.

Note: The Internet component of the Spring/Summer Classroom/Internet offering reflects the scheduling of the mandatory pre-course reading. Students must enroll in this course prior to the last Friday of the Internet component.

39 Hours

Fee: \$589.48

☆ **Concept Development in Math** **CCLD 317**

Prerequisite(s): CLD 212 or Direct Entry

Students examine how young children ages birth to 8 understand and engage in mathematical knowledge, concepts and processes. Students explore and critique different theories of mathematical approaches to learning, such as inquiry-based models. Experiences designing and teaching lessons, creating physical and social environments to promote mathematical thinking, and assessing children's knowledge and skills encourage positive attitudes toward mathematics in the learning environment.

Note: The Internet component of the Spring/Summer Classroom/Internet offering reflects the scheduling of the mandatory pre-course reading. Students must enroll in this course prior to the last Friday of the Internet component.

39 Hours

Fee: \$589.48

☆ **Research I: Methods** **CCLD 322**

Prerequisite(s): CPSY 102 or Direct Entry

This course provides students with an understanding of scientific research methods as they relate to the field of early childhood education. The course examines a variety of quantitative and qualitative methodologies and covers the various components of research from the formulation of research questions to the analysis and interpretation of data. (Formerly ECE 303).

39 Hours

Fee: \$589.48

☆ **Research II: Applications** **CCLD 323**

Prerequisite(s): CCLD 322

This course extends and applies the materials covered in Research I. Students formulate, carry out, write up, and present a research project of their own design in the field of early childhood education. Students also have the opportunity to analyze and critique each other's projects and to evaluate a variety of research approaches. (Formerly ECE 306).

39 Hours

Fee: \$589.48

☆ **Families in Canadian Context II** **CCLD 332**

Students examine diversity in race, ethnicity and culture within Canadian society and move toward an understanding of how these factors shape family values, family forms, child rearing and parenting practices, and family expectations for their children. They examine the potential for conflicting expectations between families and educators/caregivers from the dominant culture. Concepts of race, racism, and ethnic relations are studied in the context of globalization, migration, refugee and settlement experiences. Policies, practices and legislation on immigration and settlement are also examined. Students engage with a family in the community as part of the course. (Formerly ECE 302).

39 Hours

Fee: \$589.48

☆ **Assessment for Programming** **CCLD 342**

Prerequisite(s): CLD 241 or Direct Entry

This course examines approaches to assessment and evaluation of children's development with attention to children with disabilities and children-at-risk, from birth to eight years. Students use formal and informal screening and assessment tools to develop individualized programming for young children, to address a range of developmental needs in a variety of early childhood settings. A conceptual framework for assessment and programming skills in designing an individual program plan are concrete outcomes of this course. (Formerly ECE 316).

39 Hours

Fee: \$589.48

☆ Field Education III**CCLD 363**

*Prerequisite(s): (CLD 241 and CCLD 262) or Direct Entry;
Corequisite(s): CCLD 342*

In their third on-campus or off-campus placement, students continue to apply their knowledge and skills working with children who may have identified special needs. These placements are primarily inclusive settings such as the Ryerson Early Learning Centre and Gerrard Resource Centre, early childhood care and education settings and primary classrooms. Students may also be placed in specialized programs devoted to children with specific exceptionalities. Students assess and focus on planning and implementing learning activities that are developmentally appropriate and adapted specifically to address the child's extra support needs, special needs and learning styles and developing supportive relationships with families and the community, and working with colleagues. The on-campus seminar component of the course supports the students' placement experience.

Note: Placements are available in fall, winter, and spring/summer terms. Students must attend a mandatory information session and obtain permission of the School of Early Childhood Studies. The School will enroll students directly and start and end dates will be determined in consultation with the field education coordinator. Students must meet published criteria to be eligible for distance option.

39 Hours Fee: \$593.72

☆ Concept Development in Science**CCLD 415**

Prerequisite(s): CLD 212 or Direct Entry

This course employs a project-based approach to the exploration of how young children develop skills and concepts in science. Students learn about scientific thinking, how to encourage science exploration, and how to support children's scientific inquiry from various perspectives, including Aboriginal, constructivist, reconceptualist, and the Reggio Emilia approach. Students will learn about design and creation of learning environments, projects and assessment tools that advance children's knowledge and skills development.

39 Hours

Fee: \$593.72

☆ Children and Technology**CCLD 419**

Prerequisite(s): CLD 212 or Direct Entry

This course will entail an exploration of various knowledge media in early childhood education. Students will examine the use of computers in teaching and learning, develop a basic working knowledge of computers and online technologies, and learn techniques for assessing various forms of knowledge media intended for ECE educators and children from infancy to age 8. The goal is to engage in the process of rethinking technology in relation to teaching and learning with young children.

Note: Enrollment in this course is restricted to undergraduate students of the Ryerson School of Early Childhood Studies and those with instructor permission. If required, email jnolan@ryerson.ca for approval.

39 Hours

Fee: \$593.72

☆ Children and Nature**CCLD 420**

Prerequisite(s): CLD 212 or Direct Entry

This course explores the significance of the relationship of the child to the natural world and introduces students to a pedagogical approach which involves environmental inquiry. Course content includes historical and cross-cultural overviews of our relationship to nature; the psychological significance of nature; the impact of exposure to the natural environment on children's values, attitudes, learning, and behaviour; and therapeutic uses of nature. In this course, students will also be involved in designing curriculum materials or environments for children which have a specific emphasis on incorporating the natural world.

39 Hours

Fee: \$593.43

☆ Therapies for Young Children**CCLD 444**

Prerequisite(s): CCLD 342

Students critically examine the theoretical foundations for therapeutic interventions. A range of intervention models and applications of techniques are explored including therapies in play, art, music, drama and language.

39 Hours

Fee: \$589.48

★ Inclusion and Consultation**CCLD 445**

Prerequisite(s): CCLD 342

This course examines the changing paradigms of service delivery in early intervention and special education for young children with special needs and their families. Inclusive models of service delivery are explored including collaborative and consultative models currently in use in infant development programs, group child care centres, family day care homes and early primary classrooms. Students consider educational change processes, consultation skills, public policy, interdisciplinary team collaborations, and teaching strategies in inclusive classrooms.

39 Hours

Fee: \$593.72

☆ Children and Chronic Illness**CCLD 446**

Prerequisite(s): CCLD 342 or CCYC 605

This course examines the impacts of chronic illness on the development of young children. Theoretical frameworks and current research from developmental paediatrics are explored and critically evaluated. Specifically, young children's adaptation to illness and hospitalization will be analyzed through case study examples and problem solving exercises. The role of the child life specialist and evidence-based practice is addressed with particular emphasis on interventions aimed at ameliorating the impact of illness.

39 Hours

Fee: \$624.49

☆ Equity Issues in Ontario ECE**CCLD 447**

*Prerequisite(s): CCLD 332;
Antirequisite(s): CCLD 448*

This course examines theories of childhood, community development, and educational equity in the context of Canadian society. The course focuses on four distinct communities in the province of Ontario; English, French, migrant and Aboriginal populations. The course examines social policy, curriculum, health and education for social development in both early childhood and school settings.

39 Hours

Fee: \$624.49

☆ **Childhood in a Global Context**

CCLD 448

Antirequisite(s): CCLD 447

This course examines international perspectives on theories of childhood and community development. Topics in the course include international funding of early childhood programs, global migration, Indigenous education, international organizations working in development and advocacy, and other topics identified by the instructor. The course examines social policy, curriculum, health and education for social development in both early childhood and school settings.

39 Hours

Fee: \$624.49

★ **Indigenous Early Learning**

CCLD 450

Students explore issues confronting Indigenous children and their families in Canada. Indigenous perspectives on the origins of these issues and the current environment are examined in the context of Indigenous self-determination. Course work focuses on issues from a national, provincial, and local perspective with discussions about world view, history, families, policy, and jurisdictional issues.

39 Hours

Fee: \$624.49

☆ **Senior Internship**

CCLD 464

Prerequisite(s): CCLD 363

Students choose from three options: a field placement, a research/development project or an international/out-of-province placement. All options emphasize students' development as an emerging professional. For field placement, students select an area of specialization within the broad scope of their studies. For the international/out-of-province field placement, students select a placement outside of the country/province. The research/development project offers students the opportunity to design and complete an original project.

Note: Placements are available in fall, winter, and spring/summer terms. Students must attend a mandatory information session and obtain permission of the School of Early Childhood Studies. The School will enroll students directly and start and end dates will be determined in consultation with the field education coordinator. Students admitted prior to 2005 are required to complete CCLD 262 prior to CCLD 464. Students must meet published criteria to be eligible for distance option.

39 Hours

Fee: \$593.72

ECONOMICS

These courses offer you the opportunity to become competent in economic analysis and the application of economics to national and international problems.

Economics

Related certificate(s): Business Management, Demographic Analysis, Economics, Economics and Finance, Energy Management and Innovation, Ethics, Financial Planning, Public Administration and Governance, Advanced, Social Sciences and Humanities Foundations, Sustainability Management and Enterprise Process Excellence

★ **Introductory Microeconomics**

CECN 104

Antirequisite(s): CECN 110 and FMG 905

This course is concerned with basic concepts of demand and supply, the theory of the firm, and distribution of income. It includes a study of business behaviour and decision making under various market conditions: pure competition, oligopoly, monopolistic competition, monopoly.

39 Hours

Fee: \$595.84

☆ **The Economics of Markets**

CECN 110

Antirequisite(s): CECN 104

The course deals with the emergence, concepts, and applications of market economics. It first discusses developments that gave rise to the market system, followed by an analysis of the basic concepts that are essential for understanding markets. These include the concepts of opportunity cost, demand and supply, market structure and market failure. Various market applications to Canadian economic and social issues will be examined, ranging from the economics of big business to the economics of sports, crime, education, and health. ECN 110 is not available for credit to students who choose ECN 104. (LL)

39 Hours

Fee: \$595.84

★ **Statistics for Economics I**

CECN 129

Prerequisite(s): CECN 189 or CMTH 189 or ECN 89A/B or QMS 130 or CQMS 702; Antirequisite(s): CMTH 304

This course is an introduction to basic statistics with economic applications. It is followed by a course on Statistics for Economics II, CECN 329. Statistics is a science of getting information from data. It consists of a set of analytical techniques that can be applied to data to help us make judgments and decisions in problems involving uncertainty. This course deals with the description, analysis and interpretation of data. It covers topics in descriptive statistics, basic probability theory, discrete and continuous distributions, and sampling distributions.

39 Hours

Fee: \$595.84

☆ **Introduction to Mathematics for Economics** **CECN 189**

*Prerequisite(s): CECN 109;
Antirequisite(s): CMTH 207*

ECN 189 is an introduction to fundamental calculus techniques which are frequently used in Economics. The course focuses on single variable differential calculus (limits, continuity, differentiation and integration) and on its application to optimization problems. The course uses a wide range of economic applications to illustrate and motivate all the covered mathematical techniques.

65 Hours Fee: \$785.74

★ **Introductory Macroeconomics** **CECN 204**

Antirequisite(s): CECN 210 and FMG 905

This course centres around an explanation of levels of national income, employment and prices, the business cycle, factors affecting economic growth and international trade. It also includes a critical analysis of monetary and fiscal policies designed to achieve the established goals.

Note: During the daily sessions, there is a one-hour lunch break.

39 Hours Fee: \$595.84

★ **Inflation and Unemployment in Canada** **CECN 210**

Antirequisite(s): CECN 204

The course focuses on various economic theories that emerged after the Great Depression which emphasize economic performance and government policy. It examines how the Canadian economy works, and how the major problems of unemployment and inflation can be dealt with. The course also analyzes a range of economic issues-such as poverty and income distribution, deficits and debts, free trade and trading blocks, capital mobility and exchange rate movements-and the role of government. ECN 210 is not available for credit to students who choose ECN 204. (LL)

39 Hours Fee: \$595.84

★ **Evolution of the Global Economy** **CECN 220**

This course is a survey of the economic development of the global economy since 1914, covering such factors as trade, migration, investment and monetary arrangements, and the role played by international institutions. The course will include an analysis of the impact on the international economy of twentieth century developments, such as the Great Depression, the two world wars and the globalization of financial markets. Particular emphasis will be placed on the operation of post-war institutions, such as the I.M.F., G.A.T.T. and the W.T.O., and how they affect the global economy.

39 Hours Fee: \$595.84

☆ **Mathematics for Economics** **CECN 230**

*Prerequisite(s): CECN 189 or CMTH 189 or ECN 89A/B or CQMS 702;
Antirequisite(s): CMTH 310*

This course introduces the students to mathematical topics beyond what is covered in ECN189. It covers multivariable differential calculus, and it introduces topics such as basic matrix algebra, constrained optimization, and comparative statistics for general function modes. The course uses a wide range of economic applications to illustrate and motivate all the covered mathematical techniques.

39 Hours Fee: \$586.29

★ **Intermediate Macroeconomics I** **CECN 301**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry

The aim of this course is to provide a comprehensive overview of both traditional and modern macroeconomic theories and their use in analyzing important economic issues, such as unemployment, inflation, interest rates, business cycles and government policies. Theories will be discussed in the context of Canadian macroeconomic data and active government involvement through the implementation of monetary and fiscal policies.

39 Hours Fee: \$576.75

★ **Introduction to Financial Economics** **CECN 320**

Antirequisite(s): AFF 210 and CFIN 300

This course is designed to give students an understanding of financial concepts, including the time value of money, discounted cash flows, and risk and returns. It is also designed to give the students an introductory understanding of financial markets and how they are influenced by economic trends.

39 Hours Fee: \$576.75

★ **Introduction to Law and Economics** **CECN 321**

Prerequisite(s): CECN 104 or Direct Entry

Economic aspects of social and legal issues and policies in regional, national and international contexts: property, contracts, torts, environmental law, and the economics of crime and punishment.

39 Hours Fee: \$576.75

☆ **Statistics for Economics II** **CECN 329**

*Prerequisite(s): CECN 129; Co-requisite: CECN 230;
Antirequisite(s): CMTH 404*

ECN 329 is a continuation of the topics covered in ECN 129, Statistics for Economics I. It includes such topics as estimation, hypothesis testing, inferences, analysis of variance, simple regression and multiple regressions, and model building.

39 Hours Fee: \$576.75

☆ **Booms, Busts, Panics and Manias** **CECN 440**

This course addresses a historical tendency for the financial and stock markets to exhibit periodic unstable cycles or speculative booms, followed by market downturns, instability or in the extreme, total collapse. These patterns of cyclical behaviour are illuminated by focusing on crises, beginning with the Tulip Mania. The South Seas Bubble, the 1929 Crash, the dot.com collapse and the more recent financial crisis are included. Current economic issues, whenever applicable, will be presented and examined in the light of these case studies. (LL)

39 Hours Fee: \$640.40

★ **Industrial Organization** **CECN 501**

Prerequisite(s): CECN 504

The first half of this course examines how industries are organized; how the conduct of firms is influenced by their internal organization and by the structure of the industry of which they are a part; and how an industry's performance is determined by the conduct of its firms and by the industry's structure. The second half of this course deals with public policies towards industry: competition policy, economic regulation, public enterprise.

39 Hours Fee: \$576.75

★ Economics of Energy and Natural Resources **CECN 502**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry

This course deals with the application of basic economic concepts to the problems of natural resources and with Canadian public policy issues in natural resources management. Topics covered in the course include: the resource sector and its impact on the Canadian economy, models of renewable and non-renewable resource use, the scarcity controversy, economic rents and taxation as applied to natural resources, and current issues in Canadian resource management.

39 Hours

Fee: \$576.75

☆ Economic Development **CECN 503**

Prerequisite(s): CECN 104 or CECN 110 or CECN 204 or CECN 210 or Direct Entry

This course describes the challenges faced by developing economies, with a specific emphasis on persistent world poverty. In this course we will take up questions such as: Is extreme poverty a thing of the past? What is economic life like when living under a dollar per day? Are the poor always hungry? How do we deal with the disease burden? How do we make schools work for poor citizens? We shall also study the role of markets, government and non-governmental organizations in fostering economic development. This course will give the students a good idea of the key questions asked by scholars interested in development and poverty today, and possibly a few answers as well. (UL)

39 Hours

Fee: \$576.75

★ Intermediate Microeconomics I **CECN 504**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry

A more detailed study of price theory, this course looks at the production decisions of firms and the consumption decisions of households. It gives an introduction to risk and uncertainty. It examines how the decisions of all the independent economic agents are co-ordinated by the price-system in purely competitive markets. The course also gives a variety of applications of micro-economic theory.

39 Hours

Fee: \$576.75

★ Money and Banking **CECN 506**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry;
Antirequisite(s): CECN 509

The role of money in the economic system is emphasized along with current monetary theories. Also examined are the purpose, structure and regulations of the chartered banks and other financial institutions. By monitoring developments in the money market, especially changes in key interest rates, students may assess monetary initiatives of the Bank of Canada.

39 Hours

Fee: \$576.75

★ Environmental Economics **CECN 510**

Prerequisite(s): CECN 104 or Direct Entry;
Antirequisite(s): CECN 511

This course applies economic analysis to the problems of pollution and the use of natural resources. It examines market processes when externalities in production and consumption are present. The relationship between the environment and the economic system, sources of pollution and methods of pollution abatement are studied. Application of cost-benefit analysis to the problems of environmental goods is evaluated. Examination of the economics of renewable and nonrenewable resources follows. Topics include: resource classification, the theory of optimal usage, resource conservation, and the limits to growth debate.

39 Hours

Fee: \$576.75

☆ Economy and Environment **CECN 511**

Antirequisite(s): CECN 510

This course looks at the relationship between the economy and the environment. It discusses how economics can help identify key issues in environmental problems. Economic concepts are used to shed light on solutions to the problem of pollution, the management of common property, and the possibility of sustainable development?. (UL)

39 Hours

Fee: \$576.75

★ Intermediate Macroeconomics II **CECN 600**

Prerequisite(s): CECN 301

An advanced study of the determinants of aggregate demand and the structure of Keynesian and new classical models. Policy issues covered include effectiveness of stabilization policies in an open economy, crowding out, choice of monetary policy instruments, and monetary policy and the exchange rate.

39 Hours

Fee: \$576.75

★ The Economics of Information **CECN 601**

Prerequisite(s): CECN 504

In this course we shall analyze different economic situations involving imperfect information. A brief introduction to game theory and market structure will be provided. The topics of the course will include: signaling and screening in the job market, adverse selection and the market for lemons (as applied in the market for used cars), the value of information in a strategic conflict, notions of individual rationality and incentive compatibility, sharecropping, interlinked contracts, and public goods (Groves-Clarke).

39 Hours

Fee: \$576.75

☆ Canada and Global Economic Issues **CECN 603**

Prerequisite(s): CECN 104 or CECN 110 or Direct Entry

This course deals with the analysis of economic and social issues which confront Canadian citizens and policy makers. The course focuses on how economics can illuminate some of the social and economic issues that Canadians believe are important. The course involves standard economic techniques (micro and macro), to examine selected issues. This is an upper level course and microeconomic theory will be used extensively. Economic concepts will be reviewed as required. (UL)

39 Hours

Fee: \$576.75

★ Labour Economics **CECN 605**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry;
Antirequisite(s): CECN 505

This course aims to introduce students to basic labour economics, with particular reference to the Canadian case. This course draws on contemporary methods to model and analyse key aspects such as labour supply and demand behaviour. These aspects are combined to explore the determination of wages and major policy questions such as minimum wage legislation and unionization. The acquired tools are applied to special topics such as human capital investment, immigration, gender discrimination and unemployment.

39 Hours

Fee: \$576.75

- ★ **International Monetary Economics** **CECN 606**
Prerequisite(s): CECN 301;
Antirequisite(s): CECN 607
- International monetary economics is devoted to the study of large-scale economic problems in interdependent economies. The focus is on key economic variables such as exchange rates, prices, interest rates, income, wealth, and the current account. Core topics include foreign exchange markets, exchange rates in the short run and the long run, the national and international accounts, the open economy IS-LM model, fixed and floating exchange rate regimes, gains from financial globalization, exchange rate crises and the operation of pegs, and the euro.
- 39 Hours Fee: \$576.75
-
- ☆ **Issues in the International Economy** **CECN 607**
Antirequisite(s): CECN 606; Not available to students in Business Management or Hospitality and Tourism Management
- This course deals with international financial markets and the ways in which they affect national economies. By studying the operations of these markets it will be shown how significantly they constrain domestic policy-making, not only in a small open economy like Canada's but increasingly in all other economies as well. Attention is given to issues of current political concern, such as the Third World debt problem, the American trade deficit, the rise of Japan as a major international creditor, and the disintegration of the Communist system in Eastern Europe. ECN 607 is not available for credit to students who choose ECN 606. (UL)
- 39 Hours Fee: \$576.75
-
- ★ **An Introduction to Game Theory** **CECN 614**
Prerequisite(s): CECN 700
- Game theory studies the interactions and conflicts between decision-making agents. This course focuses on its application to economic issues such as market structure, auctions and bargaining. It begins by introducing the concepts of action, strategies, cooperation and non-cooperation, and equilibrium. The assumption of complete information is then relaxed and the application of game theory to situations of incomplete and imperfect information is explored. The course draws on real world examples to illustrate core concepts, such as the Prisoner's Dilemma and buying votes. These examples borrow from micro, macro and experimental economics.
- 39 Hours Fee: \$576.75
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- ★ **Econometrics I** **CECN 627**
Prerequisite(s): (CECN 230 or CMTH 310) and (CECN 329 or CQMS 442 or CMTH 404)
- This course is an introduction to econometrics. The main topics of the course are the linear regression model, its estimation and inference. Other topics include heteroscedasticity, endogeneity, and instrumental variable estimation.
- 39 Hours Fee: \$570.38
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- ★ **The Economics of Immigration** **CECN 640**
Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry
- This course applies economic principles to immigration. Students will examine issues such as discrimination, humanitarian concerns, the impact on the wages and employment prospects of native-born persons, social assistance programs, and contributions to the financing of such programs. The course will develop an understanding of the role of economics in providing theoretical predictions and empirical evidence that is relevant to the issues. Students will be equipped to discuss emerging new issues in this area.
- 39 Hours Fee: \$576.75
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- ★ **Intermediate Microeconomics II** **CECN 700**
Prerequisite(s): CECN 504
- The purpose of the course is to examine production functions, cost minimization and profit maximization decisions of firms under different types of market structures. Price theory to the market structures of monopoly, oligopoly, and monopolistic competition will be extended. Markets for factors of production will be examined as well. This course will give an introduction to game theory as well.
- 39 Hours Fee: \$576.75
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- ★ **Econometrics II** **CECN 702**
Prerequisite(s): CECN 627
- This course is a continuation of ECN 627 and covers some advanced econometric methods. The main topics of the course include economic methods designed for panel data sets, estimation of discrete choice models and time series analysis.
- 39 Hours Fee: \$576.75
-
- ★ **Public Sector Economics** **CECN 703**
Prerequisite(s): CECN 504
- The public sector's large role in the economy shows the importance of understanding the principles of public finance. How do we explain the growth of the public sector's share in the economy during most of the twentieth century? What criteria are relevant in determining the optimal level and scope of government activities? Topics examined include public goods and externalities, natural monopolies, pricing of publicly produced goods, and benefit-cost analysis.
- 39 Hours Fee: \$576.75
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- ☆ **Economics of International Trade** **CECN 707**
Prerequisite(s): CECN 504;
Antirequisite(s): CGMS 601, IBS 601
- The purpose of this course is to introduce the student to the theory and practice of international economics. The factor proportions theory of trade is explained, and the evidence supporting it examined. Major emphasis is placed on the "new international economics" and its implications for Canadian trade policy. The issues surrounding free trade with the United States are examined, as well as the perceived need for interventionist industrial policies.
- 39 Hours Fee: \$576.75

<p>★ Transportation Economics CECN 710</p> <p><i>Prerequisite(s): CECN 104 or IND 302 or Direct Entry;</i> <i>Antirequisite(s): MGT 803</i></p> <p>Addresses current and historical economic issues in both passenger and freight transport for all modes, as well as for urban transportation. The course examines the economics of significant transportation issues from, between and within the developed world. Demand-side issues, such as changing income levels and locational decisions; supply-side issues, such as the need for adequate funding for urban carriers; and constraints, such as regulation and uncertainty arising from political situations are synthesized.</p> <p>39 Hours Fee: \$576.75</p>	<p>☆ The Economies of East Asia CECN 802</p> <p><i>Prerequisite(s): (CECN 204 or CECN 210) or Direct Entry</i></p> <p>This course is a general survey of the economies in East Asia, including Japan, China, South Korea, Taiwan, Hong Kong, Singapore, Malaysia, Thailand, Indonesia and the Philippines. The emphasis is on their patterns of economic development and inter-relationships. Topics to be covered include growth and development, international trade and investment, financial and exchange rate systems, as well as public policies. Current economic issues will also be discussed, particularly those with relevance to Canada. Economic trends and related news items will be presented and examined in the light of their historical background and existing social and political context. (UL)</p> <p>39 Hours Fee: \$570.38</p>
<p>★ Advanced Microeconomics CECN 715</p> <p><i>Prerequisite(s): CECN 700</i></p> <p>This course deals with the theories of consumption and of production at a more advanced level. It discusses decision making by consumers and firms, in situations of certainty as well as uncertainty and risk. The course introduces the students to welfare economics, and applies microeconomic theory and welfare economics to specific problems and policy issues.</p> <p>39 Hours Fee: \$576.75</p>	<p>★ Canadian Tax Policy CECN 803</p> <p><i>Prerequisite(s): CECN 504</i></p> <p>This course focuses on the problems and theoretical issues of financing government. The major forms of taxation-personal and corporate income taxes, sales and commodity taxes and the property tax-are examined critically. In addition, the main features of Canadian fiscal federalism (intergovernmental transfers, equalization grants and revenue-sharing), are reviewed and appraised.</p> <p>39 Hours Fee: \$570.38</p>
<p>★ International Financial Markets CECN 721</p> <p><i>Prerequisite(s): CECN 301 and (CECN 320 or AFF 210 or CFIN 300)</i></p> <p>This course develops a solid understanding of the international financial system and examines managerial decisions made in an international setting. First, current theories of financial price determination and their testable implications are studied in the context of foreign exchange, offshore, derivative securities and international asset portfolio markets. Second, managerial decisions regarding capital financing, investing and risk management are analyzed from the point of view of private individuals, firms and governments.</p> <p>39 Hours Fee: \$576.75</p>	<p>★ Economic Growth and Technological Change CECN 808</p> <p><i>Prerequisite(s): CECN 301 and CECN 504</i></p> <p>This course analyzes a wide range of issues that affect a country's growth performance. In particular, the course focuses on the effects of technological progress and human and physical capital accumulation on economic growth, as well as the role of government policies (fiscal policy, trade and environmental taxes, industrial subsidies) in determining the efficient use of a countries' resources.</p> <p>39 Hours Fee: \$585.23</p>
<p>☆ Principles of Engineering Economics CECN 801</p> <p>Engineering economics is concerned with the problem of investment decision making or capital expenditure analysis. An "investment" problem involves making a decision to allocate financial resources to acquire productive assets that will generate cash flows in future time periods. Engineering economics seeks to develop and apply a logically consistent methodology for evaluating investment projects. Discounted cash flow methods are used in analyzing such projects. In this course we will assume certain cash flows and ignore taxation implications. After developing the mathematics of cash flow equivalence, absolute and relative measures of project worth will be developed and applied to individual and multiple projects. The emphasis will be on private project decisions, but similar methods will be applied to public sector projects.</p> <p>42 Hours Fee: \$585.23</p>	<p>★ Advanced Macroeconomics CECN 815</p> <p><i>Prerequisite(s): CECN 600</i></p> <p>This course has two objectives. First, it provides a rigorous introduction to a standard set of topics in modern macroeconomic theory, such as economic growth, business cycle theory, consumption theory, monetary policy and fiscal policy. Second, the course develops the analytical tools required to study the above topics within a dynamic optimization framework. This is an advanced course aimed for students with a solid background in macroeconomic and microeconomic theory, linear algebra and calculus. It is particularly recommended for students interested in pursuing a graduate degree in economics.</p> <p>39 Hours Fee: \$576.75</p>

ENERGY MANAGEMENT

In the energy management sector, for every two people retiring from the workforce, there is only one who is qualified in joining. The next leaders in the energy management sector require the knowledge and emerging skill sets vital to dealing with the technical and non-technical demand and response issues, fiscal oversight, project management, regulatory policy, and risk assessment that impacts energy generation, transport, distribution, and consumption.

Energy Management

Transforming to a green economy has emerged as one of the many management challenges facing society today. Managing the conversion to renewable energy, the reduction of dependence on fossil fuels, and the development of smart grids is seen as the cornerstone of success in achieving economic, environmental, and industrial sustainability. Managing the risks and the opportunities for energy innovation is high on the public agenda in Canada and countries around the world. Related certificate(s): Energy Management and Innovation, Sustainability Management and Enterprise Process Excellence

⚡ Energy Innovation and Entrepreneurship **CKEI 100**

This course focuses on the drivers for innovation in Ontario's energy sector, the opportunities for new business, and the challenges of moving from the idea stage to the marketplace. Barriers to innovation and commercialization - technological, financial, and regulatory - will be explored through case studies, including lessons learned from guest lectures by business leaders in the Ontario energy sector.

39 Hours

Fee: \$789.25

⚡ Energy Conservation: Emerging Trends **CKEI 110**

This course is designed to allow students to explore the technical and policy dimensions of energy conservation, energy efficiency, and demand response, with particular focus on potential contributions to sustainability of urban energy systems in a Canadian and, more particularly, an Ontario-based context. A key element of this course will be guest speakers from the energy industry, many of whom are potential employers.

39 Hours

Fee: \$789.25

⚡ Energy and the Public Policy Debate in Canada **CKEI 120**

This course introduces students to the wide range of factors that influence the development and implementation of energy policy in Canada. Using both lectures and special guest presentations, the course will review the social, political, geographic, and other pressures that make the energy debate so highly charged in our very regionalized country. Students will appreciate how many non-technical issues impinge upon energy policy and why certain policy outcomes seem to be decided by these social and political considerations.

39 Hours

Fee: \$789.25

⚡ An Introduction to Smart Grid **CKEI 130**

This course will examine the challenges of modernizing and digitizing the electrical grid in Ontario. It will explore the engineering and technological challenges of the smart grid; the issues of privacy and security; third party access to smart grid data; technologies which allow customers to manage their consumption of electricity; and the innovation and economic opportunities of the smart grid.

39 Hours

Fee: \$789.25

⚡ Current Topics in Energy Management and Innovation **CKEI 140**

This capstone course will allow participants to synthesize and apply what they have learned to complex energy management issues and energy solution implementations. Participants will analyze selected case scenarios and possible solutions using the energy management frameworks and models mastered in earlier courses to provide substantiation, precedents, and supporting evidence for proposed recommendations. As this is the capstone course in the Energy Management and Innovation certificate, participants will be required to undertake a final project paper to integrate and apply energy sustainability's social, economic, and/or environmental components to one or more issues, solutions, or innovations. The final paper allows participants to demonstrate a broad mastery of learning across the curriculum and to hone their ability to propose specific strategies and solutions that incorporate best sustainability practices and meet regulatory requirements. The paper may be used by participants for career portfolio purposes.

Note: This is an online home study course.

39 Hours

Fee: \$789.25

ENGINEERING

These courses and workshops are ideally suited to technicians, technologists, or others working in engineering-related fields who wish to broaden their knowledge of current practices in engineering, upgrade their professional qualifications, or develop new skills that can be usefully applied in their work. Note: Written approval is required before undergraduate degree program students can register in these courses.

Aerospace

❖ CATIA Engineering Design I CKAE 100

The student will be exposed to many of the topics currently dominating the study of Engineering Design. Subjects may include Introduction to CATIA, Profile Creation, Part Features, Additional Part Features, Dress-up Features, and more. Students will be expected to navigate in the CATIA menu environment, create part profiles, create solid parts, and modify solid parts and add further detailing.

19.5 Hours

Fee: \$733.27

❖ CATIA Engineering Design II CKAE 101

This is a continuation course from CKAE 100. Topics include reusing data, finalizing design intent, assembly design, designing in context, and drafting (ANSI & ISO). Students will be expected to make efficient use of digital existing data, finalize design intent, create assemblies of parts, design in context, Create 2D drawings to ANSI and ISO standards.

19.5 Hours

Fee: \$733.27

❖ CATIA Engineering Design III CKAE 102

This course is designed for those considering a career in engineering design, including private, public, para-public, and not-for-profit organizations. This is a continuation course from CKAE 101. Topics include creating a product structure, add components and position correctly, analyse assemblies and ensure design coherence, design 3D parts using the Boolean approach, work in multi-model environment, and maintain links between models.

19.5 Hours

Fee: \$733.27

Civil Engineering

Civil engineers plan, design, and build the infrastructure which we all use every day. If you're intrigued by technology and fascinated by building, these courses will introduce you to the major areas – structures, environments, transportation, geotechnical elements, and geomatics, that come together to form the field of civil engineering.

☆ Transportation Planning CCVL 910

Prerequisite(s): CCVL 316

Treatment of the process and techniques of transportation planning, with emphasis on urban and regional applications. Topics include: historical development of transportation planning in North America; transportation planning framework; surveys and data collection; transportation-land use interaction; analysis and models of transportation demand; analysis and models of transportation performance; development and evaluation of transportation planning options.

52 Hours

Fee: \$877.71

NEW

❖ Highway Design

CKCV 735

The course provides guidance for design choices for highway elements. Emphasis is placed on assessing the safety, operational and environmental implications of design decisions. Design elements include: horizontal and vertical alignment and cross-section design; intersection and interchange design; roadside; and rural and urban highway drainage facilities. Computer applications include interactive highway safety design and roadside safety design analysis.

65 Hours

Fee: \$1036.79

NEW

❖ Traffic Operations and Management

CKCV 902

Introductory topics related to the management of traffic on urban and rural road networks, including bicycle and pedestrian facilities. Topics include: capacity analysis for interrupted and uninterrupted flow facilities; deterministic and stochastic models for traffic flow; traffic simulation principles; freeway traffic management; signal timing for isolated intersections, networks and arterials; adaptive traffic control; safety of traffic management and engineering principles and techniques.

65 Hours

Fee: \$1036.79

NEW

❖ Transportation Planning

CKCV 910

Treatment of the process and techniques of transportation planning, with emphasis on urban and regional applications. Topics include: historical development of transportation planning in North America; transportation planning framework; surveys and data collection; transportation-land use interaction; analysis and models of transportation demand; analysis and models of transportation performance; development and evaluation of transportation planning options.

52 Hours

Fee: \$885.99

Industrial Engineering

These courses will provide you with an introduction to the field of industrial engineering, where the interactions of people, machines, materials, information technology, and management are like pieces of a puzzle. Finding the best fit takes creativity and a great deal of technical knowledge. Once it all comes together, there's improved productivity, efficiency, quality control, service, and safety. As a result, business saves time and money. Related certificate(s): Data Analytics, Big Data, and Predictive Analytics

NEW

★ Big Data Analytics Tools

CIND 719

Prerequisite(s): Department consent

This course is an introduction to learning big data tools such as Hadoop and advanced SQL techniques. Students will gain a clear understanding of Hadoop concepts and technologies landscape and market trends. They will construct SQL queries of moderate to high complexity to retrieve data from a relational database. Note: Tools taught Hive, Pig, Oozie, LAMBDA, Gigraph and GraphLab.

Note: For further information, contact Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca or at 416.979.5000, ext. 2665.

Computer Requirements: Students in the Data Analytics, Big Data, and Predictive Analytics certificate should consult the attached flyer for computer requirements.

39 Hours

Fee: \$789.25

Mechanical Engineering

Related certificate(s): Data Analytics, Big Data, and Predictive Analytics

Machine Shop Practice

CKME 103

This course is set out so that at its conclusion the student will have a practical basic training in the understanding and safe operation of machine shop tools and machinery. This will include the use of hand tools, measuring tools, (precision and standard) cutting tools, and machine shop processes associated with manufacturing. This course will be suitable for students in the Mechanical and Industrial disciplines or those who have a vested interest in knowing the practical aspect of machine shop practices. Also this course will be of great benefit to students who are embarking on projects involving the manufacturing of test components and equipment which require machine shop tools to manufacture.

39 Hours

HST included

Fee: \$789.26

Introduction to Big Data Analytics

CKME 130

This course is designed to give students an overview of big data, state of the practice in analytics, the role of the data scientist, big data analytics in industry verticals, and analytics lifecycle as an end-to-end process. It focuses on key roles for a successful analytic project, main phases of the lifecycle, developing core deliverables for stakeholders, team work skills, and problem solving skills.

39 Hours

Fee: \$789.25

Data Analytics: Basic Methods

CKME 132

This course is an introduction to R, analyzing and exploring data with R, and using R with a database. It focuses on statistics for model building and evaluation. Topics cover experimental research, correlation analysis, regression, confidence intervals, and group comparisons, and parametric and non-parametric models.

39 Hours

Fee: \$789.25

Data Analytics: Capstone Course

CKME 136

Students will engage in hands-on application of analytics in a project setting. The capstone course is intended to bring to fruition an applied synthesis of data analytics methods, techniques and applications and apply the competencies that this synthesis affords to a real-world area of interest. Working with a faculty supervisor, participants will apply what they have learned in respect to their real-world area of interest. Solving social network problems will also be covered.

39 Hours

Fee: \$789.25

Contract Mgt and Procurement (Tech Sector)

CKME 700

In this workshop, participants learn from a senior professional in the technical sector how to execute the key contract and procurement processes required to adhere to government rules and licensing requirements, including administering contracts. Participants will gain expertise within the technical sector in drawing and executing contracts, building professional networks, and navigating through legislative frameworks and government regulations.

Note: For more information about this workshop, please visit Career Advancement Workshops for Engineering Technicians and Technologists.

OACETT members receive special member pricing by enrolling by email, fax, or regular post; to do so, complete a Mail-In Enrollment Form (PDF) and forward it, including your OACETT membership number and credit card number and expiry date, to: Debbie Wilk, The G. Raymond Chang School of Continuing Education, Ryerson University, 350 Victoria Street, Toronto, Ontario, M5B 2K3; Email: dwilk@ryerson.ca; Fax: 416.979.5277.

All other students may enroll through the usual methods.

14 Hours

HST included

Fee: \$834.75

Finance and Accounting Found (Tech Sector)

CKME 701

From a professional working in the technical sector, participants learn how to accurately analyze financial reports and how to effectively make decisions based on accounting and financial information. They will learn to interpret basic financial statements, demonstrate expertise in finance and accounting “first principles” for decision-making, understand the basics of organizational finance and financial assets, and apply finance and accounting “best practices” for decision-making in technical sector organizations.

Note: For more information about this workshop, please visit Career Advancement Workshops for Engineering Technicians and Technologists.

OACETT members receive special member pricing by enrolling by email, fax, or regular post; to do so, complete a Mail-In Enrollment Form (PDF) and forward it, including your OACETT membership number and credit card number and expiry date, to: Debbie Wilk, The G. Raymond Chang School of Continuing Education, Ryerson University, 350 Victoria Street, Toronto, Ontario, M5B 2K3; Email: dwilk@ryerson.ca; Fax: 416.979.5277.

All other students may enroll through the usual methods.

14 Hours

HST included

Fee: \$834.75

Data Analytics Fast Track

CKME 999

This intensive program offers students a fast track to completion of the Certificate in Data Analytics, Big Data, and Predictive Analytics. With over 12 weeks of intensive, full-time study, participants will complete all six courses required to earn the certificate.

Note: The sixth course, Data Analytics: Capstone Course (CKME 136), is completed online in a subsequent academic term of the student's choosing.

To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further information, contact Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca or at 416.979.5000, ext. 2665.

234 Hours

Fee: \$4044.59

ENGLISH

We offer courses in English Literature and Creative Writing.

English Literature

Students enrolled in Ryerson degree programs are responsible for ensuring that any course selected from those listed below meets the specific requirements of their program. For more detailed information regarding specific program restrictions, check the Undergraduate Calendar at www.ryerson.ca. Related certificate(s): Aboriginal Knowledges and Experiences, Caribbean Studies, Design for Arts and Entertainment, English Literature and Popular Culture, Ethics, Social Sciences and Humanities Foundations

★ Laughter and Tears: Comedy and Tragedy **CENG 101**

Laughter and tears are not always straightforward. A tale of pride going before a fall can be reassuring to us as well as sad, and a Hollywood romantic comedy can encode a scathing social critique. Offering insight into our ongoing fascination with the extremes of human emotion, this course traces how the twin poles of the comic and tragic have developed through literary history, and how they vary across diverse cultural traditions. This course is not available to BAENGLISH students for credit. (LL)

39 Hours

Fee: \$595.84

☆ The Short Story **CENG 104**

As a relatively new genre that burst on the literary scene with the emergence of magazine culture, the short story is a truly modern form. Its excitement has to do with the concision of its form and the startling turns its narratives can offer. This course explores the history and conventions of the genre, examining stories from a variety of cultural contexts representing a range of styles, themes, and social issues. (LL)

39 Hours

Fee: \$595.84

★ Introduction to Fiction **CENG 108**

Stories shape every aspect of our experience. In this course, students read and write about different forms of fiction across historical periods and media. Students examine the underlying mechanisms of storytelling including narrative's goals, inner structures, strategies and rhetorical effects. Texts may include short stories, novels, poetry, and drama as well as cinematic and digital texts.

39 Hours

Fee: \$590.54

★ Zap, Pow, Bang: Pop Lit **CENG 112**

Antirequisite(s): CENG 703

Horror stories, pop songs, love poetry, comics—this course introduces students to various types of writing that were popular at different times and in different cultures. Students will learn central concepts and terminology in the study of popular writing and culture, and they will analyze the impact that cultural and political issues have had not only on what works became popular but also on the very notion of “the popular” itself. This course is not available to BAENGLISH students for credit. (LL)

39 Hours

Fee: \$595.84

★ Writing as a Cultural Act **CENG 200**

We live our lives through networks of texts, both printed and digital. This course takes a rhetorical perspective to explore how written texts provide more than just information: they perform important cultural actions in contemporary civic life. Students examine the relationship of writing to knowledge, belief, and social organization in contexts such as popular and social media, politics and activism, literature and art, and professional, technical, and academic cultures.

39 Hours

Fee: \$585.23

☆ Myth and Literature **CENG 201**

From classical poetry to video games, stories follow recognizable patterns that tell us much about our values, fears, and desires. Offering a fertile source for plots and themes, myth systems present a set of limits to be investigated, challenged, and rewritten. This course examines how plays, poems, novels, and/or other texts engage with myth. Topics may include such diverse ideas as masculinity, initiation, fellowship, betrayal, rebirth, exile and homecoming. This course is not available to BAENGLISH students for credit. (LL)

39 Hours

Fee: \$595.84

★ The Literature of Native Peoples **CENG 203**

How has colonialism impacted indigenous cultures, and how have indigenous people used texts to pose challenges to colonialism and to preserve and retell traditional stories? Reading contemporary literature by Aboriginal Australian, Maori, First Nations and other indigenous writers, students address these and other important socio-political questions, examine wider literary and theoretical issues, and consider questions regarding cultural identity raised in the writings of Native peoples. (LL)

39 Hours

Fee: \$595.84

☆ Literatures of Immigration **CENG 204**

Edward Said declared the twentieth century “the age of the refugee, the displaced person, mass immigration.” This course looks at literature and films from around the world that focus on experiences of immigration and exile, and the challenges of living in a new culture and a new language. These narratives often describe the immigrant experience in terms of both loss and opportunity. This course explores the limitations and the possibilities of living between two cultures. (LL)

39 Hours

Fee: \$595.84

★ Introduction to Non-Fiction **CENG 208**

Prerequisite(s): CENG 108

Stories come to us in many forms including life writing, travel writing, documentaries, historical testimony, political speeches, journalistic texts and scientific and legal discourse. In this course, students read and write about non-fiction in a variety of forms across diverse historical periods and media.

39 Hours

Fee: \$590.54

☆ Cultures in Crisis

Using novels, short stories, films and other media, this course focuses on significant challenges faced by, and changes initiated in, a wide range of cultures. From the perspectives of gender, race, ethnicity, sexual orientation, ability, mobility, and ongoing negotiations of identity within multicultural and im/migrant communities, course materials illuminate the complex nature of modern experience and draw attention to the important questions and concerns cultures have faced and continue to face. This course is not available to BA ENGLISH students for credit. (LL)

39 Hours

CENG 212

Fee: \$595.84

★ Fairy Tales and Fantasies

Starting with the powerful images of folk tale, fairy tale, and legend, and following them through fantasies and animal tales, this course explores their evolution from oral stories for adults to literary versions for children. It will also examine the intellectual and historical influences of the periods. The material to be studied includes modern versions of the tales in print and visual media.

39 Hours

CENG 222

Fee: \$588.42

☆ Children's Literature

This course examines children's literature as a cultural category that shapes and is shaped by changing notions of "the child" and childhood. Students explore the ways in which texts directed at children's instruction and entertainment relate to their time, place, and generic form. Topics may include fiction; picture books; comics; film; and poetry.

39 Hours

CENG 224

Fee: \$588.42

★ Colonial and Postcolonial Literatures*Prerequisite(s): CENG 208*

This course introduces students to one of the key areas of critical interest and debate in English studies, postcolonialism, and invites them to reflect upon and discuss the ways in which Empire - in its historical and present day manifestations - shapes "third world" or the "developing" world's relationship with the West. It also familiarizes students with some of the most exciting and politicized theoretical debates in the discipline.

39 Hours

CENG 413

Fee: \$576.75

★ Science Fiction

The mythology of our civilization is the story of things to come. The prophetic visions of writers such as Asimov, Brunner, Clarke, Gibson, Heinlein, Herbert, Hogan, LeGuin, Lem and Niven offer endless playgrounds for the imagination. Their second gift is a widening vista or real alternatives: our future may be what they let us choose to make it. If you want to play an informed part in that choice, this course will provide the menu. This course is not available to BA ENGLISH students for credit. (UL)

39 Hours

CENG 503

Fee: \$576.75

★ Gothic Horror*Antirequisite(s): ENG 580*

Invented over 200 years ago, the gothic has become one of the most popular genres in literature and film. This course will explore the gothic presence in popular culture during this time. Students will analyze ways in which the genre challenges not only other cultural conventions, but also claims in the realms of art, science, and medicine. Topics to be addressed include the relation of the gothic to gender, sexuality, class, orientalism, imperialism, and criminality. This course is not available to BA ENGLISH students for credit. (UL)

39 Hours

CENG 510

Fee: \$570.38

★ The Art of Writing Life*Antirequisite(s): ENG 570*

This course examines a variety of life-writing genres including the diary, letter, autobiography, memoir, and biography. By sampling a range of texts (both print and electronic) throughout history, students will explore diverse ways in which writers express their private and public stories about life and self. Students will gain an understanding of life-writing theory which can be used to rethink the relationships between gender and genre; fact and fiction; and art and artlessness. This course is not available to BA English Students for credit. (UL)

39 Hours

CENG 511

Fee: \$576.75

★ The Language of Persuasion*Prerequisite(s): CENG 208*

What makes a political speech "good"? Why are some advertisements more effective than others? This course focuses on the crucial role of rhetoric in cultural communication: the means through which language is mobilized to persuasive ends. Students learn a critical vocabulary drawn from a variety of perspectives and explore persuasion in contemporary discourse, including print and online media, television, film, public events, and art, in order to understand how language achieves its most powerful effects.

39 Hours

CENG 520

Fee: \$584.17

☆ Women's Writing*Antirequisite(s): CENG 621*

What does it mean to "write as a woman"? Is there such a thing as "women's writing" and if so, what are its characteristics? This course explores the ways in which women have contributed to literary traditions both by working within and by challenging mainstream movements. In examining women's use of literary forms as aesthetic, personal and political sites, we will consider how issues of identity and historical context inflect and inform their writing strategies. This course is not available to BA English students for credit. (UL)

39 Hours

CENG 602

Fee: \$585.23

★ The Language of Love, Sex and Gender*Antirequisite(s): ENG 941*

Love, sex, and gender are fluid and complex. Looking at stories, novels, films, and other types of texts, students will analyse the impact of literature, popular culture, and aesthetics on the formation of new notions of gender, sexuality, and desire. Emphasis will be placed on a consideration of the cultural and sociopolitical influences that contributed to these changes and on the possibility of affections, sexualities, and genders that may not yet have names. This course is not available to BA English students for credit. (UL)

39 Hours

CENG 610

Fee: \$579.93

★ **English Caribbean Literatures and Cultures** **CENG 620**

The lives of peoples from the English-speaking Caribbean are extensively explored in dramatic works, films, music, art, novels and stories produced in the region and by Caribbean expatriates in Canada, the US and the UK. By situating examples of such works within their cultural contexts, the course raises a number of questions about Caribbean identities and experience and uses these questions to illuminate the history, struggles, and triumphs of these peoples and to imagine future possibilities. (UL)

39 Hours Fee: \$576.75

★ **Women's Texts, Global Contexts** **CENG 621**

Prerequisite(s): CENG 208;
Antirequisite(s): CENG 602

This course introduces students to literary and cultural works by women writers across the globe. Students will read and discuss narratives by writers from a range of backgrounds, paying particular attention to the ways in which “women” and “gender” as political and cultural categories are constructed through the vectors of race, culture, politics, and sexuality.

39 Hours Fee: \$576.75

★ **Studies in Visual Cultures** **CENG 705**

Prerequisite(s): CENG 208

By exploring the ways images in photography, painting and film, as well as in literary and non-literary writing, are scripted and can be read as text, this course seeks to show how visuality organizes and shapes Western culture. Topics can include how such things as the invention of perspective and the visual technologies of photography and film have influenced philosophy and literature, and how the culture industries have used the visual as a tool to influence and entertain.

39 Hours Fee: \$576.75

★ **Shakespeare and Performance** **CENG 706**

Prerequisite(s): CENG 208

Shakespearean drama was an important medium for entertainment and for reflecting contemporary socio-political realities on stage. A mark of Shakespeare's continued relevance and popularity is the constant remaking of his plays in a variety of media. This course analyses the textual, thematic, historical, and theoretical readings of Shakespearean drama. Students explore a variety of adaptations, including folk performance, early-modern theatre, television, and film.

39 Hours Fee: \$576.75

★ **Principles of Persuasion** **CENG 720**

Prerequisite(s): CENG 208

Aristotle defined rhetoric over 2000 years ago as the art of discovering, in any given case, the available means of persuasion. Since then, views on persuasion have shifted in tenor and scope but all emphasize its role in shaping public life. Offering a survey from ancient Greek and Roman texts through to contemporary rhetorical criticism and related fields, this course examines how we use rhetoric to negotiate knowledge, belief, and action in various contexts.

39 Hours Fee: \$613.88

★ **Television Texts and Contexts** **CENG 888**

Prerequisite(s): CENG 208

Love it or hate it, television stands alone as a medium in its ability to influence the way we live and view the world. What is it about the immediacy of television that invites us to engage with it? Students will draw from literary studies, sociology, and anthropology to explore how the “flow” of television structures our time and our relations to one another, and how the “television” evolves as new communications technologies develop.

39 Hours Fee: \$576.75

★ **Narrative in a Digital Age** **CENG 921**

Prerequisite(s): CENG 208

This course explores how contemporary writers and artists have attempted to come to terms with the so-called post-print era - a historical moment characterized by the strategies of fragmentation and recombination that digital hyperspaces make possible. By analysing digital texts and the work of cultural theorists on the nature and impact of this new medium, students will address the implications of the rise of computing and the internet for the future of literary and other cultural practices.

39 Hours Fee: \$576.75

English Writing Development

The ability to write clearly, effectively, and in a voice that is distinctly your own can be learned. These courses are designed to develop your feeling for language, your knowledge of its forms and structures, and your skills in composition. As you master these fundamentals, your writing will begin to reflect a more powerful and purposeful use of language. Related certificate(s): English Literature and Popular Culture

★ **Creative Writing** **CENG 505**

This upper-level course offers students the opportunity both to study models of good writing and to develop their own creative abilities. Class discussions and workshop groups are designed to enhance the student's understanding of the creative process, to stimulate the imagination, and to develop individual abilities. Areas of discussion include style, prosody, conflict, character, dialogue, and revision. This course is not available to BA ENGLISH students for credit. (UL)

39 Hours Fee: \$586.29

ENGLISH AS A SECOND/ ADDITIONAL LANGUAGE

These credit and non-credit courses are designed for non-native speakers, who are still learning English and need to continue improving their English reading, writing, speaking, and listening skills.

English as a Second/Additional Language

If English is not your first language, and you need to develop greater fluency to advance your career, these courses are ideally suited to you. Ranging from general to specialized, from intermediate to advanced, they give you the opportunity to develop your reading, writing, listening, and speaking skills in English.

For placement assessment, complete the online placement test. For more information, applicants can attend an Open House session or contact Marju Toomsalu, ESL/EAL Academic Coordinator, at 416.979.5000, ext. 4196, or mtoomsal@ryerson.ca. Related certificate(s): English as a Second/Additional Language

★ Language and Identity

CLNG 111

Antirequisite(s): CLNG 100

This writing-intensive course for English as an Additional Language students explores how language use reflects social identities. Through academic readings, the course helps students improve their knowledge of written and spoken English and express themselves effectively, orally and in writing, at a university level. Students will analyze, discuss, and write essays. Enrollment subject to the online placement, English Proficiency, or Writing Skills Test results. (LL)

39 Hours

Fee: \$643.58

★ Language: Spoken and Written

CLNG 112

Antirequisite(s): CLNG 300

This writing course for bilingual/English as an Additional Language students introduces students to contemporary thinking about oral and written language and the use of language. The topics include the nature of language, first and second language learning, and style of speech. Students analyze and discuss academic readings and write essays. An online placement test is required. Enrollment subject to the online placement, English Proficiency, or Writing Skills Test results. (LL)

39 Hours

Fee: \$643.58

★ Language and Public Life

CLNG 113

Antirequisite(s): CLNG 200

This writing course for English as an Additional Language students focuses on how language is framed by institutional and cultural perspectives. Students analyze and discuss academic readings and write essays. This is the last and most advanced course in the LNG series for students whose first language is not English. An online placement test is required. Enrollment subject to the online placement, English Proficiency, or Writing Skills Test results. (LL)

39 Hours

Fee: \$643.58

❖ Professional Communication for the Workplace I

COEN 201

Prerequisite(s): Department consent

This course aims to strengthen and enhance learners' oral communication skills (listening, speaking, and pronunciation) necessary to function effectively in their future work environments. To achieve this, the course will focus on developing learners' critical reading and thinking skills and their ability to express their ideas clearly and effectively. The learners will have opportunities to strengthen their professional language skills through various kinds of in-class and self-directed activities and assignments.

Note: All students must take an online placement test before enrolling in this course.

39 Hours

Fee: \$620.97

❖ Professional Communication for the Workplace II

COEN 202

Prerequisite(s): Department consent

The course aims to strengthen and enhance learners' written skills necessary to function effectively in their future work environments. To achieve this, the course will focus on developing learners' critical reading and thinking skills and their ability to express their ideas clearly and effectively. The learners will have opportunities to strengthen their professional language skills through various kinds of in-class and self-directed activities and assignments.

Note: All students must take an online placement test before enrolling in this course.

30 Hours

Fee: \$620.97

⊕ Intermediate Grammar

COEN 204

This course is meant for lower intermediate students of English who need to review and refresh their knowledge of grammar. The course will focus on the use of appropriate forms of language in specific contexts, thus allowing students to focus on the meaning of a grammatical form. The topics discussed in this course will help students improve both their oral and written expression. In writing the students will be working on improvement at the sentence level. The topics will be: verb tense and voice, subject-verb agreement, the conditional, modal verbs, adjectives and adverbs, and the article.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

⊕ Reading/Listening Test Prep I

COEN 210

Prerequisite(s): Department consent

This course prepares students for academic reading and listening tasks in post-secondary settings, and also for reading and listening comprehension sections of English proficiency tests at the level generally required for math and science based undergraduate programs. Academic vocabulary, text and lecture analysis, reading, and note-taking techniques will be the focus of this course. Students will practise these skills in bi-weekly practice tests.

39 Hours

Fee: \$514.98

🔗 Writing/Speaking Test Prep I

COEN 220

Prerequisite(s): Department consent

This course prepares students for academic writing and speaking tasks in post-secondary settings, and also for writing and speaking sections of English proficiency tests at the level generally required for math and science based undergraduate programs. Students will work on planning, outlining, paragraph and essay writing skills, as well as the basics of English grammar. Speaking will be practised via typical test tasks. Students will practise these skills in bi-weekly practice tests.

39 Hours

Fee: \$514.98

🔗 Writing Accurately and Clearly

COEN 294

This is an intermediate-level course designed to prepare students for Critical Reading and Effective Writing (COEN 295). This course takes a practical approach to improving students' reading and writing skills, with a focus on developing strategies for planning, revision, responding to readers' needs, and proofreading. In addition, students work on sentence structure, grammatical errors, organization, vocabulary, and dictionary use. Reading material is chosen to develop active, critical reading and comprehension skills. Students participate in discussions and peer feedback.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$592.64

🔗 Critical Reading and Effective Writing

COEN 295

This is an upper-intermediate-level course designed to build on Writing Accurately and Clearly (COEN 294). This course takes a practical approach to improving students' reading and writing skills, with a focus on developing strategies for planning, anticipating readers' needs, revision, and proofreading. In addition, students continue to work on sentence structure, grammatical errors, organization, vocabulary, style, and dictionary use. Students write longer texts, both in class and for homework (please note that this is not a course in academic writing). Reading material is chosen to develop active, critical reading and comprehension skills. Students participate in discussions and peer feedback.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🔗 Writing for Professionals

COEN 296

This 12-module course develops effective industry-specific professional writing and editing skills. The course examines the principles of good writing and editing, and has writers apply these principles of good writing and editing in assignments that are customized to individual professional goals and industry backgrounds. Writers learn and apply strategies to frontload information and to frame, organize, and present ideas for maximum impact. The course explores writing within a range of business writing genres including online mediums such as e-mail to exploit the advantages of various communication modes. Throughout the course, writers develop and refine individualized editing strategies to self-assess and improve their written communications skills to make their writing a powerful tool in business communication.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🔗 Scientific and Technical Writing

COEN 298

This course has been designed to help non-native speakers of English who are pursuing studies or are employed in the fields of science and engineering, develop writing skills to cope with English speaking academia and/or workplace. Students should have a fairly good command of English grammar and be able to write clear sentences in English to benefit from this course. The course will focus on improving students' knowledge of grammar and writing in the context of genres of technical communication: technical instruction, manuals, short memos, e-mail messages, reports, and presentations. Heavy focus will be on the principles of organization in writing: classification, definition, description, and comparison.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🔗 Effective Conversation Strategies

COEN 299

This course gives students the opportunity to practise speaking English with a variety of purposes and contexts. Classes include work on initiating and maintaining conversation, cultural differences in communication, engaging in group and one-to-one communication, informal and formal presentations, and improving voice and non-verbal language. The course is supplemented by audiovisual aids. Students participate in a variety of individual and group activities.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🔗 Pronunciation

COEN 301

This course concentrates on the English sound system, helping students to identify and reduce their specific pronunciation problems and to improve their general pronunciation and accent when speaking English. By a combination of lectures and practice sessions, students learn articulation of vowel and consonant sounds; sound reductions; glides, and stress, rhythm and intonation patterns; and overall accent in English. In addition, students will understand the links between correct pronunciation and listening and spelling.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🔗 Advanced Grammar

COEN 304

This course is designed for upper-intermediate and advanced students of English as a Second/Additional Language who want to improve the accuracy of their speech and writing. It is particularly useful for those who feel they are being held back in their career or their studies because their writing contains an unacceptable number of grammatical errors. A central feature of the course is a point-by-point review of particular grammatical troublespots. Students will be encouraged to submit samples of their writing.

Note: All students must take an online placement test before enrolling in this course.

35 Hours

Fee: \$620.97

🌐 ESL/EAL: Oral Communication for Professionals COEN 306

This course is for advanced English as a Second/Additional Language students who wish to improve their oral communication and confidence in professional contexts. Students will learn to recognize, compare, and negotiate differences in North American academic and workplace practices; to effectively present, promote, and express themselves; to develop sensitivity to audience, tone, voice, non-verbal communication, and appropriate language; and to develop troubleshooting strategies for handling difficult communicative situations. Students will participate in a variety of individual and group activities.

Note: All students must take an online placement test before enrolling in this course.

35 Hours Fee: \$620.97

🌐 Integrated Skills I COEN 311

This course is for students of English as a Second Language who want to improve their skills in reading, writing, listening and speaking. The course covers all the essential skills and so helps students to pinpoint problem areas for further study. Students will read short texts on a variety of interesting topics, thereby increasing their vocabulary and adding to their knowledge about Canadian society and culture. Topics will also be presented via audio or video, allowing students to develop their listening skills. Students will learn to summarize the issues discussed and to present their own views on course topics verbally, and in writing. Writing will be at the sentence and paragraph level. There will be an overview of common grammar problems, and the instructor will give individual feedback on writing assignments, paying attention to both content and grammar. All students will have the opportunity during class discussions to practise and improve their oral skills.

Note: All students must take an online placement test before enrolling in this course.

35 Hours Fee: \$620.97

🌐 Integrated Skills II COEN 312

This course is for students of English as a Second Language who want to further improve their skills of reading, writing, listening and speaking. In this course, students will read short and longer texts on a variety of interesting topics to increase vocabulary and learn about the conventions of writing in English. Texts will also be presented to the class via audio or video, allowing the students to develop their listening skills. Students will practise the art of summarizing and analyzing ideas and arguments. Writing assignments will generally be in the form of paragraphs which summarize and respond to topics presented in class. The instructor will give individual feedback on student assignments, paying attention to both content and grammar. All students will have the opportunity to practise and improve their oral skills through discussions and short presentations in class on topics pertaining to the course content.

Note: All students must take an online placement test before enrolling in this course.

35 Hours Fee: \$620.97

🌐 Reading/Listening Test Prep II COEN 410

Prerequisite(s): Department consent

This course helps students to improve their performance in academic and professional reading and listening tasks typical in post-secondary education and in a professional workplace. It also helps students to achieve higher scores in reading and listening comprehension sections of English proficiency tests at the level generally required for humanities and communications-based undergraduate and graduate programs. Advanced academic vocabulary, text and lecture analysis, reading, and note taking techniques will be the focus of the course. Students will practise these skills in bi-weekly practice tests.

39 Hours Fee: \$514.98

🌐 Writing/Speaking Test Prep II COEN 420

Prerequisite(s): Department consent

This course helps students improve their performance in academic and professional writing and speaking tasks in post-secondary educational and professional settings. It also helps students to achieve higher scores and succeed in writing and speaking sections of English proficiency tests at the level generally required for humanities and communications-based undergraduate and graduate programs. Students will work on perfecting their academic writing skills and grammar, as well as speaking and presentation skills in formal settings. Students will practise the skills in bi-weekly practice tests.

39 Hours Fee: \$514.98

ENVIRONMENTAL SCIENCES

The environment is the natural, social, and built condition in which we live, and it is shaped by the interaction of the elements that surround us. Human impact on the environment requires effective management practices to protect the environment. Environmental sciences and management offer an increasing number of career opportunities in fields as varied as ecology, occupational health and safety, physical science, bioremediation, engineering, law, and management.

Environmental Sciences

This multidisciplinary program provides graduates with the broad knowledge base and wide range of skills they require as professionals. Students receive a grounding in air, water, and soil processes and contamination, biotechnology, instrumentation, and experiment design. Admission into the Environmental Engineering Science Certificate Program is necessary prior to the first registration in one of the following courses. After admission to the program, no further interviews are necessary. Related certificate(s): Energy Management and Innovation, Environmental Sciences, Sustainability Management and Enterprise Process Excellence

🔍 Environmental and Atmospheric Processes **CKES 120**

This course will cover chemical and biogeochemical processes in the pristine and stressed environment. The course will deal with the mechanisms which pertain to the dispersion and fate of both naturally occurring and xenobiotic compounds in the environment. Atmospheric pollution is assessed in terms of sources, transport mechanisms, chemical reactivity, loss mechanisms, and effects on the physical and biological environment. Global climate change is analyzed. Current regulatory and control strategies are also presented.

39 Hours

Fee: \$752.91

🔍 Waste Management **CKES 160**

This course will cover waste characterization, collection, and disposal. Land application of biosolids is discussed. Practical aspects of management will be covered including legislation and authority as well as advanced technology, with emphasis on environmental, industrial, and resource constraints. Specific treatment technologies applied to a range of specific hazardous and industrial wastes will also be examined, including new innovative approaches to remediating hazardous sites and groundwater.

39 Hours

Fee: \$789.25

🔍 Water Treatment **CKES 170**

This course will explain the sources and characterization of wastewater. Drinking water requires different treatment than either domestic or industrial wastewater. The course will review the conventional processes in the treatment of domestic wastewater and some cases of treatment of industrial contractors, fluidized-bed reactors, membrane reactors, and ion exchange processes will be discussed.

39 Hours

Fee: \$789.25

🔍 Site Assessment **CKES 180**

This course will introduce Phase I and II of Environmental Site Assessments (ESA). Phase I-ESA is a nonintrusive investigation identifying liabilities linked to contaminants through site inspection and historical review. Phase II-ESA is an onsite investigation of a property's surface and subsurface, through samples and analysis. This data is necessary for a record of site condition and risk assessment. The students will learn about the specific Canadian Standards and about site assessment in Ontario.

39 Hours

Fee: \$789.25

🔍 Renewable Energy and Green Technology **CKES 190**

This course provides an in-depth introduction to sustainability theory and green technology, renewable energy in a sustainable future, and why renewable energy is necessary for the future. Students will be introduced to different types of renewable energy technology such as: wind energy, solar, hydro-electric, geothermal energy, ocean thermal, fuel cells, heat pump systems, and high voltage DC energy transport. The implementation of these technologies is also studied to understand how they can work either in conjunction with, or a replacement for, conventional technologies.

39 Hours

Fee: \$752.91

🔍 Applied Environmental Analysis **CKES 210**

This course provides an applied framework for the designing of environmental analysis, planning of experiments, sampling strategies, and data analysis pertaining to environmental analysis and problems. An overview of analytical methods used to identify contaminants and follow their fate in the environment is also introduced. Topics include data acquisition, data interpretation using probability, analysis of variance, residual analysis, and nonparametric models. Emphasis will be placed both the execution and application of the analysis in a variety for a variety of environmental situations.

39 Hours

Fee: \$789.25

🔍 Environmental Law and Practice **CKES 220**

This course is a review of the legal context for environmental management. It examines in detail the legislation that governs present environmental practice, as well as the laws governing the transportation and disposal of wastes, environmental liability, and the protection of valued ecosystem components. The course identifies the differences between federal and provincial environmental laws and policies. In addition, it outlines the institutional, legal, and practical options for making environmental decisions.

39 Hours

Fee: \$752.91

FACILITY MANAGEMENT

The facility manager is responsible for the integration of the workplace with the people and work of the organization. This program will provide knowledge and analytical skills for those pursuing careers in this newly defined profession. It will be of interest to those who are being prepared by an organization to assume a role in facility management, those who are newly appointed to a facility management department, and those who wish to upgrade their credentials within the facility management department or to implement a career change.

★ Facility Management Fundamentals **CDFM 102**

Students will learn about the development of facility management as a profession, the challenges and opportunities arising from the multifaceted role the facility manager must play in an organization, and how to manage those responsibilities. Students will learn about the core competencies and explore functions such as building operations and maintenance, space management and office layout, project management, leasing, security, IT contracting, and interfaces with other departments. (Equivalent to IDE 311.)

39 Hours Fee: \$682.84

🔗 Project Planning, Design, and Management **CDFM 103**

The role of the facility manager includes planning, design, and management of space and building projects. This course outlines the function of the facility manager as the initiator of projects and then the orchestrator of other related professionals, including the architect, engineer, and design consultant. Students will learn about project feasibility studies, budgeting, various stages of project planning, design, and execution. Issues include regulator and legal issues, corporate culture, contracting, performance, and accountability.

39 Hours Fee: \$684.31

🔗 Building Operations and Maintenance **CDFM 104**

Facility managers become involved in physical building issues whether their company owns their own building or they are a tenant interfacing with a landlord. This course outlines the relevance of understanding building systems and the elements needed to interface with other related professionals, including problem solving. Students will learn the building systems and impacts to their role and related topics such as architecture, design, building codes, occupational health, risk and security, service contract management, sustainability, commissioning, and facility planning.

39 Hours Fee: \$684.31

🔗 Space Planning and Management **CDFM 105**

Managing the work environment is an important role for facility managers. This course outlines the critical areas to provide an effective work environment for your organization. Students learn current techniques and concepts for planning and management of office space, including systems furniture and conventional office planning. Space standardization programs, modern alternate workplace arrangements, and the importance of good planning are reviewed for both new and existing facilities.

39 Hours Fee: \$684.31

🔗 Real Estate Planning and Development **CDFM 203**

Commercial real estate is the foundation of the facility manager's role, whether dealing with an acquisition, new construction, or leasing of premises. This course outlines the primary elements of each one, preparing the student to deal with all potential scenarios. Students will learn about site selection, market analysis, the changing real estate market, procurement of design/construction, real estate programming and requirement of analysis, lease negotiation techniques, asset monitoring and control, and real estate and the law.

39 Hours Fee: \$684.31

FAMILY STUDIES

Family Studies

Related certificate(s): Food Security

★ Families and Health

CFNF 100

This course is a critical examination of recent important changes in Canadian family life and considers the implications of these changes for food and nutrition professionals. Theories for understanding the family are examined in order to provide the student with insight into the social, political and economic aspects of family structure and functioning. Students will also gain an understanding of the social determinants of health, and the pathways by which social forces and conditions affect individual, family and community life.

Equivalent course available in the degree program. Contact Reg Noble at food@ryerson.ca for more information.

39 Hours

Fee: \$593.72

★ The Social Context of Human Sexuality

CFNF 400

This course examines the social basis of attitudes and behaviour related to human sexuality. By applying knowledge gained from the study of current research and theory, students will increase their understanding of the roots of societal norms and values related to sexuality and in the process they will have an opportunity to expand their own awareness of the range of sexual values and behaviour. Some of the areas to be considered are: premarital, marital and non-marital sexuality; sexuality and liberation; sexuality and interpersonal relations; sex codes and personal codes; sex and gender role socialization, etc.

39 Hours

Fee: \$593.72

FAMILY SUPPORTS

Individuals seeking admission to the certificate program are strongly encouraged to contact the academic coordinator, Catherine Moher, by email at cmoher@ryerson.ca. For general information on the program, phone 416.979.5035 or attend an Open House session.

Family Supports

Related certificate(s): Community Engagement, Leadership, and Development, Family Supports, Food Security

★ Contemporary Family Issues

CVFS 401

This interdisciplinary course provides an in-depth study of key issues and life experiences affecting contemporary families and community life and their relationship to the broader sociopolitical context. Topics include the cultural variations in family interaction, the trends in family composition, and the issues that impact on family resilience and capacity such as poverty, mental health, addiction, violence, and abuse. A variety of theoretical frameworks for understanding families and community life will be explored. Equivalent to CLD 231.

39 Hours

Fee: \$593.72

★ Family Supports Theory and Practice

CVFS 403

This course examines the principles and practice approaches in the field of family support. Such approaches contribute to the evolving framework of family support programs and include theories of social support, empowerment, adult education, and community building. Students explore ways to integrate theoretical approaches with professional practice by exploring family support practice in community based public and non-profit programs. (Formerly ECE913/CVFS 403.) Equivalent to CLD 435.

39 Hours

Fee: \$593.72

★ Guiding Children's Development

CVFS 406

This course examines the major theories of children's development, focusing on all the developmental domains: physical, cognitive, language, social, and emotional and includes consideration of the importance of the socio-cultural context. Such development will be considered in relation to diverse settings in community-based programs. In particular, the role of parents, practitioners, and staff in building relationships, guiding behaviour, and meeting the developmental needs of children from birth through age 12 will be discussed. Equivalent to CLD 103.

39 Hours

Fee: \$593.72

★ Practicum/Project

CVFS 408

Prerequisite(s): CVFS 401, CVFS 403, and CVFS 404.

In this course students will develop a project in relation to Family Support Programs with the goal of integrating the knowledge gained in previous courses. The project will be selected by the students themselves, in consultation with the instructor. The student evaluation will be based on ongoing consultation between the instructor and the student. Wherever possible, students will be given an opportunity to select a project that relates to their own personal or professional interests. Equivalent to FNP 400.

Note: Students are encouraged to contact the Academic Coordinator, Catherine Moher, at cmoher@ryerson.ca to plan their practicum enrollment.

39 Hours

Fee: \$593.72

FASHION

The following fashion courses offer you an eclectic mix of choices. Ranging from sewing and retail and merchandising issues to pattern drafting and fashion drawing, they are suited to both your professional and personal learning interests.

Fashion

Related certificate(s): Design for Arts and Entertainment, Fashion Coordination and Styling

🌀 Fashion Drawing I

CDFA 104

This is an introductory level fashion illustration course. You will draw from models, learning anatomy and proportion as well as basic drawing principles. It explores traditional methods of rendering and provides a sound foundation in drawing. It is designed for a novice individual who wishes to learn basic drawing skills as well as for the amateur who wishes to brush up on their skills. Course material will be delivered through lectures and drawing from models. There will also be time for critical one-on-one input as well as group critique.

Supplies and materials to be purchased by the student: A list of supplies and materials required will be given to students during the first class.

39 Hours

Fee: \$637.19

🌀 Fashion Drawing II

CDFA 110

Prerequisite(s): CDFA 104

This course builds on the foundations learned in CDFA 104. It explores both traditional and non-traditional methods of rendering for fashion illustration. Drawing skills will be developed through conceptually based projects and exploration of techniques. Course material will be delivered through lectures and drawing from models. Time will be set aside for critical one-on-one input as well as group critique and portfolio presentation for the industry.

39 Hours

Fee: \$637.19

Fashion Summer Quick Start

CDFA 800

Primarily intended for students enrolling in the School of Fashion in September, this intensive one-week foundation course is designed to enhance drawing skills and sewing/garment construction skills. Students in high school who want to strengthen their portfolio may also attend.

35 Hours

HST included

Fee: \$744.27

❖ Directions in Fashion Journalism

CDFA 851

As the publishing industry evolves, blogging and podcasting present new avenues which require different ways of communicating what is a current when describing lifestyle or garments. This course will examine podcasting and blogging, focusing on writing and reporting specifically targeting the fashion industry. It will address the changing face of journalism with regard to disseminating fashion and will also familiarize the student with language commonly used in fashion and journalism.

39 Hours

HST included

Fee: \$604.76

❖ Fashion Head Start

CDFA 860

This is an overview of the fashion industry from design and communication viewpoints including sketch and creation, fashion shows, media promotion, and wholesale and retail marketing. In-class multimedia presentations will explore these concepts and outside classroom visits including a designer in their studio, the Royal Ontario Museum, and fashion magazine, will bring them to life. This workshop will give an understanding of the fashion industry and what comprises the post-secondary education that will lead to future employment.

35 Hours HST included Fee: \$744.27

☆ Knitwear Design

CFFD 503

Prerequisite(s): CFSN 101 and FSN 220

This course is an introduction to industrial knitwear. Students will research style, colour and fabrication trends to design men's or women's knitted apparel for a specific market. Knitwear terminology and mass production techniques will be analyzed as they apply to the design room. Domestic and off-shore production, the use of technology, the purchasing and inventory of raw goods will be covered. On-site lectures at manufacturing facilities will supplement the theory presented in class.

39 Hours Fee: \$589.48

☆ Textile Design I

CFSN 209

Prerequisite(s): FSN 221

This course is an introduction to textile design using industry-specific computer aided design (CAD) systems. Students research, design, render floral, conversational, abstract and co-ordinating patterns for woven textiles utilizing a variety of techniques.

Note: Formerly CFFD 201.

39 Hours Fee: \$636.16

☆ History of Costume I

CFSN 302

Prerequisite(s): FSN 232 or CCMN 201 or CCMN 279 or CIRH 202 or THP 115 or THP 202

This course will provide a chronological cross-cultural survey of the history of costume. An analysis of period dress for men and women will be contextualized within the framework of supporting social and cultural infrastructures. Particular emphasis will be placed on European and North American costume addressing the evolution of fashion as a social practice. Concepts of design, as well as the motivations and influences of key historical dressmakers, tailors and designers will also be covered.

39 Hours Fee: \$636.16

★ Visual Merchandising and Display

CFSN 703

Prerequisite(s): FSN 221 and FSN 222

This course will review the role of visual merchandising and display in the retail sector. The course will include an analysis of the approaches used in department stores, chain stores and independent boutiques. Topics will include the development and execution of creative strategies as well as corporate communication of these plans to the stores in the field.

39 Hours Fee: \$593.72

Fashion Coordination and Styling

These courses are designed to prepare students for a career as fashion coordination and styling consultants. Related certificate(s): Design for Arts and Entertainment, Fashion Coordination and Styling

⊗ Fashion Coordination

CDFC 101

This course is an introduction to adapting a fashion appearance to create an image working with clientele. It will acquaint students with the principles and practices of an image consulting industry. It may include concepts of demographics, customer awareness, personal colouring, figure considerations, wardrobe planning and selection. Basic techniques needed for the visual presentation of fashion through show production and promotion may be explored.

39 Hours Fee: \$681.54

⊗ Fashion Styling

CDFC 102

This course is an introduction to methods and techniques for creating a mood, feeling or "look" through the use of clothing and related props. Study of product sourcing, location shooting, organizing resources, manipulation and reworking an image to communicate an idea may be presented. Creative thinking abilities, analytical skills, and cultural context may be explored to meet the demands and responsibilities of this field.

39 Hours Fee: \$650.32

⊗ Design Fundamentals in Fashion

CDFC 103

An introduction to the fundamental elements and principles of two and three dimensional design as they apply to visual problems in fashion. Through a process of simulation, stylization, and approximation students may investigate how shape, line, texture, and colour harmonies are applied to body types to create an image, a style and/or an optical illusion. Emphasis is on the human body, practical problems, trends, association and terminology.

39 Hours Fee: \$650.32

⊗ Creating the Image

CDFC 104

This course is an introduction to methods for creating a "look." Students may study the role of hair styling, make-up techniques, fabric manipulation or modification, garment alteration and accessorizing for interpretation or invention in wardrobe artistry. The application of colour to enhance, line for detail, fabric for function, design elements to flatter, fashion selection and/or the role of trends will be explored.

39 Hours Fee: \$650.32

⊗ Fashion Shows and Special Events

CDFC 105

This course will acquaint students with aspects of event production from concept for the visual presentation of merchandise through to methods of coordinating the implementation of promotions and shows. Topics may include design of the event, theme, audience, floor plan, schedule, vendor relations, budget planning, talent and contract negotiation, models, fittings, choreography, technical services, advertising and promotion, press kits, program and poster production, and any related special services.

39 Hours Fee: \$681.54

🌀 Fashion, Culture, and Society**CDFC 106**

This course is a survey of clothing traditions from prehistoric time to the present. It focuses on the origin and function of clothing and how various cultural patterns have affected choices. Study of aesthetic, economic, environmental, political, and social influences on fashion will be explored. Clothing practices will be examined within the framework of the supporting social and cultural infrastructure. Students will examine the importance of clothing as an expression of individual and group identity.

39 Hours

Fee: \$650.32

🌀 Fashion Buying**CDFC 107**

This course is an introduction to buying fashion or softgoods as a career. Students will be acquainted with the principles and practices of buying designer and brand lines as well as the process of developing private label merchandise. Course content will include the role of the buyer, planning a fashion calendar, the buying cycle, predicting trends, building an assortment, fabric and garment sourcing, demographics, pricing and retail mathematic principals to profitability, developing private label merchandise, and merchandising to sell through and analysis of a season.

39 Hours

Fee: \$673.96

🌀 Fashion Photography**CDFC 200**

This is an introductory course in which the student becomes familiar with the fundamentals of camera use in photography. Assignments will cover lighting, image exposure, composition, and critical evaluation of your images. Some print output will be required. Lectures will cover style and techniques in photography for the fashion media with critical one-on-one input and group critique. A DSLR digital camera with manual settings is required.

39 Hours

Fee: \$650.32

Summer Fashion Intensive**CDFC 999**

Students have the opportunity to obtain the Certificate in Fashion Coordination and Styling through this unique fast-track program which covers all four required courses and four preselected elective courses.

Note: For further program information, contact Academic Coordinator, James Fowler, at jamesbfowler8@ryerson.ca.

312 Hours

Fee: \$5275.51

Fashion Workshops

❖ Start Your Own Fashion Business**CDFA 840**

Do you have what it takes to be a fashion entrepreneur? This workshop will help you answer the question. Whether you want to start your own label or offer your services on a freelance basis to the fashion business, we will introduce you to the tools needed and help you plan and start your own design or fashion business in Canada. Topics include the business of getting started, industry timing, costing, trademarks, licensing, marketing your collection, low-cost promotion strategies, and getting export-ready.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

Some knowledge of fashion design, apparel production, and business planning is recommended.

3 Hours

HST included

Fee: \$136.38

❖ Handwear and Glove Making**CDFA 852**

This is a workshop for the manufacturer of handwear. Students will make two pairs of gloves, one leather and the other in a material of their choice. Students will learn pattern manipulation for the hand.

Note: Basic sewing is a plus, however simple hand sewing is sufficient.

12 Hours

HST included

Fee: \$492.08

❖ Fashion Portfolio**CDFA 853**

A successful portfolio needs to show your creativity and follow the rules of a professional submission. This two-part workshop covers the details and requirements of the portfolio in the first session and review of your work in the second session. This allows someone with little or no work the time to create work for review. It is designed for students applying to a Ryerson Fashion program, as well as someone with a portfolio who wants professional critique.

7 Hours

HST included

Fee: \$382.13

FILM STUDIES

The Film Studies program provides a good basic grounding in the principles, contemporary theories, and techniques of the motion picture medium. Courses range from an introduction to basic filmmaking to specialized courses such as screen writing; cinematography and lighting workshops; directing screen performance; production design; and sound design. It is an excellent starting point for people who want to pursue a career in the film industry or satisfy their curiosity about film and film production.

Equipment/Facilities Use: Please note that equipment and facilities use outside of class time will not be provided.

Business of Film

Related certificate(s): Film Studies

★ Business of Film - Producing

CDMP 109

The role of the producer and many of those aspects of the film business which the producer has to deal with will be discussed. Some of the topics to be examined are: the recent history of the film business scene, copyrighting, option and purchase agreements, budgets, script breakdown and scheduling, the filmmaking production process, etc. The student will be required to do class presentations and to complete several other assignments. On occasion, guests from the film industry will be invited to lecture. This course or one of CDMP 209 or CDMP 210 is equivalent to MPF 301.

39 Hours

Fee: \$606.45

Negotiating Deals in Hollywood

CDMP 150

This course is very unique in that it allows students to role-play jobs in Hollywood such as a talent agent, a studio executive, and a film and TV producer. By structuring film deals and green-lighting movies, students will learn negotiation techniques, how film financing works, and how compensation for above the line talent is administered. We also focus on famous Hollywood deals from the past to learn how they were negotiated to the best possible outcomes.

39 Hours

HST included

Fee: \$568.95

★ Business of Film - Development

CDMP 209

This course will deal further with those areas of pre-production and post-production begun in CDMP 109, in which the producer must be involved. Areas to be covered are all forms of contracts, financing the project, Canadian distribution and exhibition, foreign sales, the advertising campaign, etc. On occasion guests from the industry will be invited to speak. This course or one of CDMP 109, CDMP 309, or CDMP 409 is a credit for MPF 301.

39 Hours

Fee: \$606.45

★ Movie Marketing and Distribution

CDMP 215

This course provides an introduction to the basics of motion picture marketing and distribution. The marketing topics include publicity, promotion, and advertising for feature films. Film distribution aspects consider the means of acquisition, advertising campaigns, and current methods of distribution that include new media alternatives to traditional channels. This course is designed for the independent producer and filmmaker, and provides a comprehensive understanding of significant business aspects of the film industry. This course or one of CDMP 109 or CDMP 209 is a credit for MPF 301.

39 Hours

Fee: \$606.45

Film Studies

These courses introduce you to the techniques of motion picture film production with a focus on practical filmmaking. Their combination of lecture and lab familiarizes you with cinematographic technology and methods, and gives you opportunities to apply your knowledge in exercises and project work. Because of limited space, registration in motion picture production courses is offered to registered Film Studies certificate program students first. Related certificate(s): Design for Arts and Entertainment, Digital Art Production, Film Studies, Image Arts (Film Studies or Photography Studies), Media Writing Fundamentals

★ Post-Production Sound

CDMP 114

This workshop introduces students to the methods, systems, and techniques employed in the creating and organization of events which follow the fine-cut picture and dialogue phase of production. It deals with studio recording, sound editing, and mixing and addresses the merger of film and video in post-production. Electronic sound creating and manipulating devices used in post-production will be examined. Equivalent to FPN 323.

Material Fee: A material fee of \$35 is included in the total fee indicated above. For further information, see Material Fees.

Supplies to be purchased by the student: Cost approximately \$50.

39 Hours

Fee: \$641.45

★ Film Technology I

CDMP 117

This lecture course deals with the basic technology of the motion picture medium to enable students to understand elementary cinematographic principles. (Equivalent to MPF 107.)

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

39 Hours

Fee: \$606.45

★ Film and Sound Editing I

CDMP 118

This computer lab course will give students hands-on experience in the art of film and sound editing in the digital age. Working with supplied picture and sound footage, students will discover the many creative alternatives that are possible in shaping a story for the screen. Sync-ups and laying of narration, music and sound effects tracks will be emphasized. (Equivalent to MPF 207.)

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

Material Fee: A material fee of \$35 is included in the total fee indicated above. For further information, see Material Fees.

Supplies to be purchased by the student: Approximately \$350 for the purchase of a portable hard drive (This hard drive is also needed for CDMP 229 and CDMP 329).

39 Hours

Fee: \$801.65

🌀 Digital Film Production I**CDMP 119**

This is an introductory course in the techniques and language of digital motion picture production. Instruction is given in basic camera handling and story development. Various cinematographic and directorial techniques are demonstrated. Short exercises designed around the lectures are shot and edited.

Students must have access to a camcorder and editing facilities.

39 Hours

Fee: \$781.03

★ Film History**CDMP 120**

This course examines cinema from its origins to the present. Topics include silent and sound film, the studio system in the U.S.A., contributions of western European film and notable filmmakers and films in the evolution of film art and practice. Alternative film styles and techniques will be examined against the background of the monolithic development of the narrative film and both will be considered within the context of the political, cultural and economic issues which animated their times. CDMP 120 is equivalent to MPF 327.

39 Hours

Fee: \$610.69

★ Film Theory**CDMP 121**

This segment will survey major theoretical approaches to cinema from formalist and realist traditions to contemporary developments in the discipline. Students will read classic texts, view significant films, and be introduced to current critical theory. They will gain knowledge of the rhetoric, grammar, structure, aesthetics, and ideology of cinema, and will acquire a frame of reference for questioning the inherent belief systems within certain works of cinematic art. CDMP 121 is equivalent to MPF 427.

39 Hours

Fee: \$610.69

★ Production Design for Film and Theatre**CDMP 122**

This course offers an in-depth exploration of scenography (design for arts and entertainment), emphasizing original concept design. Students may choose to develop production proposals for film, television, theatrical photography, or new media installations. Students will learn to analyze dramatic text and narrative frameworks, followed by the use of visual research techniques to support scenographic concepts. Students will apply their learning by developing a three-dimensional model and costume renderings as well as storyboards for a paper production of choice, whether a film, video, installation, book of theatrical photographs, or website. CDMP 122 is equivalent to FPN 501.

39 Hours

Fee: \$606.45

★ Art Direction for Film and Special Events**CDMP 123**

This course addresses the technical skills needed to work in a film or television art department. Working with half-hour scripts, students will create art department breakdowns, and conduct a location survey leading to entertainment specific drafting, including a title block, ground plan, elevation, and isometric details. The students will incorporate a graphic prop to the retrofitted location. Students will also have the opportunity to assemble an art direction binder to maintain crucial administrative records such as budgets, calendars, directories, and design notes. People with an interest in motion picture, television, and film/video production will find this course particularly useful. It is also relevant for architects, interior designers, stage designers, photographers, and new media artists who want to expand their professional knowledge and activities. CDMP 123 is equivalent to FPN 601.

39 Hours

Fee: \$606.45

★ Fiction Screenwriting**CDMP 125**

This course introduces students to basic writing and research techniques as they relate to fiction filmmaking and the film business. It acquaints the student with the basics of writing for production. The concentration is on visual writing at the outline stage for fiction films. Methodologies for interviewing as well as story and subject research will be dealt with in depth. The course will also deal with the basic forms of documents in commercial production such as proposals, treatments, submissions, and budgets. CDMP 125 is equivalent to MPF 324.

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

39 Hours

Fee: \$639.34

★ Non-Fiction Screenwriting**CDMP 126**

This course introduces students to basic writing and research techniques as they relate to filmmaking and the film business. It acquaints the student with the basics of writing for production. The concentration is on documentary film writing methods and techniques. Methodologies for interviewing as well as subject research will be dealt with in depth. The course will also deal with the basic forms of documents required for production such as proposals, treatments, submissions, and budgets as they pertain to documentary film production. CDMP 126 is equivalent to MPF 424.

39 Hours

Fee: \$639.34

★ Motion Picture Production I**CDMP 129**

This is an introductory course in the techniques and language of motion picture film production. Instruction is given in basic camera and editing equipment handling. Various cinematographic, directorial, and editing processes are discussed. Short-film exercises designed around the lectures are undertaken by students. This course will be valuable for people interested in learning practical filmmaking and basic technology and for teachers and other professionals who work in or employ others in the field of audio-visual tools. (Equivalent to MPF 106 and 206.) (Formerly CDMP 12A/B.)

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

78 Hours

Fee: \$1450.93

Motion Picture Special Effects I**CDMP 155**

This course provides students with a working knowledge of professional special effects techniques for motion pictures. The topics include environmental effects, mechanical effects, and pyrotechnic special effects. There is practical hands-on training reinforced by theory. Students will analyze sequences and rig the required special effects. This course is of particular interest to those in, or intending to be in, cinematography, art direction, writing and directing, or producing.

Note: For course inquiries, contact James Warrack, Academic Coordinator, Film Studies, at jwarrack@ryerson.ca.

39 Hours

HST included

Fee: \$596.09

<p>★ Film Technology II CDMP 223</p> <p><i>Prerequisite(s): (CDMP 12 or CDMP 12B or CDMP 129) or CDMP 117 and CDMP 118</i></p> <p>This course introduces students to theoretical and practical aspects of complex systems and equipment employed in production in both studio and location situations. It will include an examination of the entire sequence of production and post-production processes and the equipment and systems employed therein, including synchronous and non-synchronous systems in both shooting and post-production. (Equivalent to MPF 323.)</p> <p><i>Not offered in fall/winter/spring 2015–2016. Material Fee: A material fee of \$35 is included in the total fee indicated above. For further information, see Material Fees.</i></p> <p><i>Supplies to be purchased by the student: Approximately \$50 for the purchase of materials required for practice on certain pieces of equipment.</i></p> <p>39 Hours Fee: \$603.26</p>	<p>❖ Visual Story Telling CDMP 350</p> <p>This course introduces students to theoretical and practical aspects of screenwriting. Topics include the creation of episodic screenplays, fiction films, and documentary films for mobile screens.</p> <p>15 Hours HST included Fee: \$219.27</p>
<p>★ Motion Picture Production II CDMP 229</p> <p><i>Prerequisite(s): (CDMP 129 or CDMP 12A/B or CDMP 12), CDMP 117, and CDMP 118</i></p> <p>This intermediate-level course is a continuation of CDMP 129. In this lecture/lab teaching mode course, students will produce both a non-fiction and fiction film. The course is divided between fiction and non-fiction in order to further develop production and post-production techniques. (Equivalent to MPF 322 and MPF 422.)</p> <p><i>Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).</i></p> <p>78 Hours Fee: \$1450.93</p>	<p>❖ Filmmaking Techniques CDMP 351</p> <p>This course introduces students to hands-on experience with filmmaking techniques using their existing personal device. Students will be able to use these techniques to make short films and documentaries. Hands-on instruction enables students to understand both elementary cinematographic principles and locations sound recording methods.</p> <p>15 Hours HST included Fee: \$219.27</p>
<p>★ Short Filmmaking: On Location CDMP 231</p> <p>Living in our world exposed to constant media sources, the sharing of information forms our reality. In this production class, we are looking at media arts, using inspiration of art and popular culture. Innovative approaches to short film-making will be the focus of the course. Motion will be explored in a digital environment, using principally Adobe After Effects. Combining technical and theoretical components, this unique course will take advantage of the various shooting possibilities and cultural resources available at selected location and its surrounding areas. This course will include lectures, organized visits, technical workshops in Adobe After Effects, and critiques of student work. (Equivalent to one Professionally Related elective from Table I; see Image Arts in the Undergraduate Program Calendar.)</p> <p><i>Note: Please visit www.ryerson.ca/ce/onlocation for further details. A \$500 deposit is required. The course fee covers tuition, accommodation, all transit, professional guide, and classroom facilities. Students are required to make their own transportation arrangements to and from the location.</i></p> <p><i>Students must bring a video camera and laptop loaded with Adobe AfterEffects.</i></p> <p>39 Hours Fee: \$2480.10</p>	<p>❖ Video Productions Techniques CDMP 352</p> <p>This course introduces students to video content creation for social and informal media. Students will have hands-on exploration of creative approaches and techniques. Topics include preparation and planning, considerations for capturing, and editing. Students will create video and audio best suited for websites and popular portals.</p> <p>15 Hours HST included Fee: \$219.27</p>
<p>★ Documentary Filmmaking in Cuba CDMP 232</p> <p>This course offers students a four-week residency at the International School of Film and Television in San Antonio de los Baños, in Havana Province, Cuba. Working with mentors from the ranks of Cuban film professionals such as cinematographers, sound recordists, and editors, students will be guided through the documentary production process. Translation from Spanish to English will be provided at all times. (Equivalent to one Professional elective from Table I; see the Image Arts program in the Undergraduate Program Calendar.)</p> <p>39 Hours Fee: \$TBA</p>	<p>❖ Film Editing Techniques CDMP 353</p> <p>This course introduces students to hands-on editing of film and video. Students will be given experience in the art of motion picture and sound editing. The course will focus on applications that are available for use within mobile devices.</p> <p>15 Hours HST included Fee: \$219.27</p>
	<p>❖ Advanced Post-Production CDMP 354</p> <p>This course introduces students to more advanced video and audio editing tools and techniques. Students will learn advanced post-production methods such as colour correction, colour grading, and special effects.</p> <p>15 Hours HST included Fee: \$219.27</p>
	<p>❖ Video Publishing Techniques CDMP 355</p> <p>This course focuses is on the integration of text and other elements including video, audio and various types of images. Topics include formatting, and optimization of content for mobile device delivery.</p> <p>15 Hours HST included Fee: \$219.27</p>
	<p>❖ Writing Film Fiction CDMP 606</p> <p>This course introduces students to basic writing and research techniques that relate to fiction filmmaking and the film business. It acquaints the student with the basics of writing for production. Concentration is on visual writing at the outline stage for fiction films. Methodologies for interviewing as well as story and subject research will be dealt with. The basic forms of documents in commercial production such as proposals, treatments, submissions, and budgets are discussed.</p> <p>39 Hours Fee: \$596.10</p>

❖ Introduction to Filmmaking

CDMP 609

This course will teach you how to be creative in making your own movies. Learn the theory of filmmaking and experiment with hands-on creativity; explore the techniques and language of digital motion picture production. Expand your knowledge through short exercises and group assignments designed around lecture topics. Learners will produce a short film that will be screened in the final class.

*Note: Instructor: Mark Tollefson. After graduating from Ryerson's film school in 1985, Tollefson worked on feature films and TV series as a director, producer, and editor. A film project he produced in 1998, *Death Threat*, premiered at the Toronto International Film Festival and spawned the hit CBC series *Little Mosque on the Prairie*. His recent editing credits include documentary series for National Geographic, The Discovery Channel, and the Smithsonian Institute. His work has received distinctions from the National Film Board, the Banff Festival, the National Screen Institute, and New York Festivals, among others.*

Each student should bring a video camera; a mini DV camera is recommended.

19.5 Hours

HST included

Fee: \$458.55

❖ Writing Film Reviews

CDMP 610

This workshop will combine your enjoyment of film with a desire to write critically about it. It will help you sharpen your ability to compose solid critical writing to capture the attention of an online or print audience. Through film screenings, lectures and practice sessions, you will be introduced to writing film criticism. The course will offer an opportunity to compose at least one review which will be shared in class.

*Note: Instructor: Kevin Courrier. Courrier is a freelance writer/broadcaster with CBC Radio and currently a film critic with *Critics at Large*. He is also the author of a number of books (*Dangerous Kitchen: The Subversive World of Zappa*, *Randy Newman's American Dreams*, and *Artificial Paradise: The Dark Side of The Beatles Utopian Dream*). He teaches part-time film courses to seniors through the LIFE Institute at Ryerson University in Toronto and other venues. His forthcoming book is *Reflections in the Hall of Mirrors: American Movies and the Politics of Idealism*.*

25 Hours

HST included

Fee: \$458.55

★ Advanced Screenwriting

CDMP 700

Prerequisite(s): CDMP 125 or CDMP 126

This advanced workshop course is designed for those students with a special interest in writing for film or television. The course deals with the stages of screenwriting in the dramatic form from the development of the outline to the script treatment. CDMP 700 is equivalent to FPN 503.

39 Hours

Fee: \$652.07

Summer Film School

CDMP 999

Students now have the opportunity to obtain the Certificate in Film Studies over 12 intensive, six-day weeks. This unique fast-track program covers all required motion picture production, technology, and digital editing courses, plus three electives. Enrollment is limited to 25 students. For course information, contact James Warrack at 416.979.5000, ext. 2237, or jwarrack@ryerson.ca.

Enrollment in this course requires department consent. Please contact Academic Coordinator James Warrack at jwarrack@ryerson.ca to obtain permission to enroll.

390 Hours

Fee: \$6819.57

★ Directing Screen Performance - Basic Principles

CFPN 502

This workshop-style course is based on the premise that the only way to learn how to direct actors is to learn about acting. Students participate in acting exercises, improvisations and discussions on the acting process as it relates to the rehearsal and shooting of dramatic films, from the point of view of actors and directors. (Formerly first half of FPN32AB)

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

39 Hours

Fee: \$655.25

★ Cinematography and Lighting Design I

CFPN 531

This workshop is an exploration of cinematography, with a special focus on the stylistics of lighting as an essential aspect of cinematography. It centres on using lighting design not merely to establish a mood or time of day, but to support and further the theme or premise of the work.

Note: This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

39 Hours

Fee: \$611.76

★ Digital Animation Concepts

CFPN 541

This course will introduce students to three-dimensional virtual environments, covering visualization of three-dimensional objects represented in a two-dimensional medium as well as navigation through a three-dimensional space. This course will explore the connections between constructed worlds, as well as the requirements and aesthetics of the medium used for delivery. Modelling and animation topics covered will include perspective, composition, movement, rhythm, timing, and imaging in a three-dimensional space. Particular attention will be paid to the aesthetics and other special characteristics of the delivery medium.

39 Hours

Fee: \$642.52

★ Cinematography and Lighting Design II

CFPN 631

Prerequisite(s): CFPN 531

This course is a continuation of Cinematography and Lighting Design I. It will include exercises in studio lighting as well as an exploration of cinematographic and lighting design problems for location shooting, including colour balancing. The specific cinematographic and lighting aspects of TV commercials, documentaries and feature films will be explored.

39 Hours

Fee: \$655.25

FINANCE AND FINANCIAL PLANNING

Whether you want to learn the fundamentals of finance, progress to a more advanced level, earn a professional designation, or develop expertise in specialized business applications, the following finance courses, along with the courses listed under Accounting, will meet your needs.

Finance

All CFIN course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Accounting – Finance, Economics and Finance, Financial Mathematics Modeling, Financial Planning, Global Management Studies

★ Managerial Finance I **CFIN 300**

Prerequisite(s): CACC 100 or CACC 110 or Direct Entry

Students are introduced to the major concepts in finance and investments which are the time value of money, discounted cash flows, and risk and return. Students are given a thorough introduction to the mathematics of asset valuation. In addition, students learn how individual investors assess and reduce the risk associated with their investment decisions. The course examines how firms make investment decisions. The investment decision allocates scarce resources to projects in the firm, and involves financial forecasting, asset valuation, capital budgeting, risk management, working capital management and performance assessment.

39 Hours

Fee: \$588.83

★ Managerial Finance II **CFIN 401**

Prerequisite(s): CFIN 300 or CECN 320 or HTA 602

This course builds on the material in Finance 300. Students learn how firms assess risk when making investment decisions. Students also examine how firms decide to finance projects they assess as being worthwhile. This decision involves capital structure, dividend policy, financial instruments, risk-return trade-offs, financial planning and the cost of capital. In addition, students are introduced to derivatives, and their uses in investments, risk-management, and capital structure. Firm management in an international context is integrated into the topics covered in the course.

39 Hours

Fee: \$588.83

★ Investment Analysis **CFIN 501**

Corequisite(s): CFIN 401

This course is designed to give students an overview of both security analysis and portfolio management. The course covers the valuation of common stock, Treasury bills and bonds, the trade-off between risk and return, the efficient market hypothesis, modern portfolio theory, equilibrium pricing relationships, and the evaluation of portfolio performance. Playing an investment challenge game is a requirement of the course.

39 Hours

Fee: \$588.83

★ Personal Financial Planning **CFIN 502**

Prerequisite(s): CFIN 300 or HTA 602

This course introduces a framework of basic principles and the financial planning techniques used in professional practice. Topics include setting goals and budgeting, family life cycle, taxation, insurance, managing credit and debt, home ownership and investment principles and types.

39 Hours

Fee: \$588.83

★ Small Business Finance **CFIN 510**

Prerequisite(s): CFIN 401

In Canada, the majority of new jobs are created by small, entrepreneurial firms. The financial issues confronting entrepreneurial firms are very different from those that face large established companies. The focus of this course will be on analyzing the unique financial issues which face entrepreneurial firms.

39 Hours

Fee: \$588.83

★ Risk Management and Insurance **CFIN 512**

Prerequisite(s): CFIN 300 or HTA 602

This course looks at risk exposures and how these risks are addressed. Risk management is a life-long process that involves five steps: identification, evaluation, control, financing and monitoring. Risks can be managed with control techniques or can be financed using insurance. The course covers different types of insurance, both life, health and disability, and property, home and automobile insurance. Included are methods to calculate insurance needs.

39 Hours

Fee: \$588.83

☆ Personal Finance **CFIN 562**

Antirequisite(s): CFIN 502

This course teaches personal financial planning to students who may not have a strong math ability and/or interest so they will be better able to manage and plan their own finances and provide informed support to middle and lower-income clients. Topics include: steps in the financial planning process, budgeting, formulating financial goals, using tax rules to your advantage, debt and credit management, home-buying, insurance, investing fundamentals, planning for retirement and basic issues in estate planning.

39 Hours

Fee: \$588.83

★ Derivatives **CFIN 601**

Prerequisite(s): CFIN 501

This course is entirely dedicated to studying derivative securities-forward and futures contracts and how they modify the risk characteristics of a portfolio, how the exchange, clearing house and marketing to market systems work, arbitrage pricing, relationships, interest rate and currency swaps and the use of various types of options contracts and their use for hedging risk.

39 Hours

Fee: \$588.83

★ Retirement and Estate Planning**CFIN 612***Prerequisite(s): CFIN 300 Corequisite(s): CFIN 502;*

This course covers the issues that affect financial needs at retirement-inflation and taxation. Various vehicles for savings for retirement are examined including both private and employer-sponsored. The course also examines ways to withdraw savings at retirement. Estate planning looks at ways to ensure that assets are distributed both in accordance with one's wishes and for the maximum benefit of one's heirs.

39 Hours

Fee: \$588.83

★ International Finance**CFIN 621***Prerequisite(s): CFIN 401*

This course will extend the corporate finance material of FIN 401 and the investment-related topics of FIN 501 to the international setting. The overriding theme will be the exposure of multinational corporations and investors to the risk of varying exchange rates. Topics include: international financial markets (i.e., euro currency, bond and equity markets), various parity relationships, forecasting exchange rates, managing exposure to changing exchange rates, multinational capital budgeting and multi-national cost of capital. (Formerly IBS 621)

39 Hours

Fee: \$588.83

★ Advanced Personal Financial Planning**CFIN 812***Prerequisite(s): CACC 522, CFIN 501, CFIN 512 and CFIN 612*

This Capstone Course is designed to help students integrate concepts, knowledge and skills acquired in earlier courses. Students will demonstrate a range of professional competencies and communication skills through case studies and oral and written reports. Working in groups, students will develop critical thinking and problem-solving skills and demonstrate their mastery of the material by developing a complete financial plan. Lectures will focus on the practical application and integration of all personal finance topics.

39 Hours

Fee: \$588.83

FOOD SECURITY

These courses address issues of hunger, malnutrition, distribution of food, and environmental sustainability.

Food Security

Related certificate(s): Aboriginal Knowledges and Experiences, Community Engagement, Leadership, and Development, Food Security, Sustainability Management and Enterprise Process Excellence

★ Selected Topics in Food Security**CFNY 400***Prerequisite(s): CFNY 403*

Course theme will vary. Topics will include sustainable food production, income security and food security, and case studies in food security.

Note: For Summer 2015, this course is part of a study tour in Belo Horizonte, Brazil. For more information on application and enrollment, please contact Andrea Moraes at amoraes@ryerson.ca.

Material Fee: Additional costs for the field trip are not included in the course fee.

39 Hours

Fee: \$589.48

★ Food Security Concepts and Principles**CFNY 403**

The continuing reality of hunger and the unsustainable nature of current social, economic and food systems, both locally and globally, make food security an essential concern. This course introduces students to the concepts, programs and policies of food security, in Canada and internationally, with emphasis on the contribution of income, employment, social assistance, urban planning, and food production and distribution systems to finding solutions to food insecurity.

39 Hours

Fee: \$589.48

★ Food Policy and Programs for Food Security**CFNY 404***Prerequisite(s): CFNY 403*

Few jurisdictions in the world have put in place a full suite of policies and programs to create food security. Moreover, few countries have a national food policy. This course explores why development of program and policy initiatives for food security has occurred at such a slow pace and the impacts of this phenomenon. Frameworks for determining effective food security policies and programs are discussed, and proposals for policy and program change analyzed.

39 Hours

Fee: \$589.48

★ Applied Research Methods and Evaluation**CFNY 405***Prerequisite(s): CFNY 403*

This course offers information on conducting and evaluating research for food security. The course will examine different attempts to conceptualize and operationalize food security and insecurity at the individual, household, community and national levels; will introduce some methodological insights from social sciences useful for conducting research on food security; and will present tools for planning and managing project and program evaluation.

39 Hours

Fee: \$589.48

★ **Community Development and Food Security** **CFNY 407**

Prerequisite(s): CFNY 403

This course looks at the importance of sustainable community development for food security, and how community-based food and nutrition projects can promote economic development. While income-generating projects can have an immediate impact on individual and household food security, food security projects contribute to community development through their impacts on the formation of human and social capital. Cases from around the world will be used as examples.

39 Hours

Fee: \$589.48

★ **Urban Food Security** **CFNY 408**

Prerequisite(s): CFNY 403

The question of food security is a particular concern for urban populations as almost half of the world's population now resides in cities. Ensuring safe and affordable food for urban populations is a real challenge even for advanced industrial economies, and even worse for developing countries where resources are limited and poverty rates exceed 50 percent. This course will examine the unique challenges of creating food security in urban areas.

39 Hours

Fee: \$593.72

★ **Gender and Food Security** **CFNY 409**

The course explores the links between gender and food security, starting with a discussion of the concept of gender and a critical historical review of the Women's Movement. Contemporary issues, such as gender roles, social exclusion, resources, control, and labour, are examined, as well as the use of gender analysis and tools. The importance of agency and the effects of public policies and actions on gender equity are studied through case studies from around the world.

39 Hours

Fee: \$606.45

★ **Indigenous Food Systems in Canada** **CFNY 510**

The course introduces students to Indigenous Peoples' food, nutrition, and health issues. Using the concept of food security as a framework, food availability, accessibility, adequacy, and acceptability will be discussed in the context of historical and current Indigenous food systems. Through lectures and class discussions, topics covered include: colonization and reconciliation; Indigenous worldviews; oral history and food; traditional foods; the social determinants of health; emerging health trends; food policy, community nutrition, and Indigenous food sovereignty.

39 Hours

Fee: \$589.31

☉ **Understanding Urban Agriculture** **CVFN 410**

Millions globally practise urban agriculture, with governments and civil society organizations increasingly promoting it to enhance urban food security, health, community building, sustainable livelihoods, and environmental management. This course expands the understanding of urban agriculture, its main types and dimensions, its potential impacts, the constraints and opportunities facing it, the stakeholders involved in it, the historical contexts shaping it, and the local, regional, and international development trends bearing on it.

Note: This course has been developed in partnership with ETC-Urban Agriculture (ETC-UA) and the Resource Centre on Urban Agriculture and Food Security (RUAUF), with technical support provided by The Chang School.

This course is part of a portfolio of four distance education courses on urban agriculture, including the following: CVFN 410, CVFN 411, CVFN 412, and CVFN 413. These courses comprise a course series; students who complete all four courses will receive a Professional Development Award. For more information, visit Course Series in Urban Agriculture.

39 Hours

Fee: \$637.19

☉ **Dimensions of Urban Agriculture** **CVFN 411**

This course describes the dimensions (functions, roles, benefits, potential risks) of urban agriculture and how these complement, supplement, compete with, substitute for, or undermine those provided by other land uses, sectoral activities and actors. The main dimensions covered are: health and food security, socio-cultural dimensions, economic dimensions, and environmental dimensions. Two well-documented case studies will be used throughout the course to highlight each dimension separately, before bringing them all together.

Note: This course has been developed in partnership with ETC-Urban Agriculture (ETC-UA) and the Resource Centre on Urban Agriculture and Food Security (RUAUF), with technical support provided by The Chang School.

This course is part of a portfolio of four distance education courses on urban agriculture, including the following: CVFN 410, CVFN 411, CVFN 412, and CVFN 413. These courses comprise a course series; students who complete all four courses will receive a Professional Development Award. For more information, visit Course Series in Urban Agriculture.

39 Hours

Fee: \$608.09

☉ **Urban Agriculture Types** **CVFN 412**

Urban Agriculture (UA) is a dynamic concept that involves input supply, production, agro-processing and marketing. This course will discuss and illustrate different UA types and activities in terms of their resource-use, location, policy and institutional frameworks, functions, technical aspects, development challenges and potential innovations. It will also look into processes of decision making and location of UA and discuss a methodology for farmer-centred learning, research and extension for UA.

Note: This course has been developed in partnership with ETC-Urban Agriculture (ETC-UA) and the Resource Centre on Urban Agriculture and Food Security (RUAUF), with technical support provided by The Chang School.

This course is part of a portfolio of four distance education courses on urban agriculture, including the following: CVFN 410, CVFN 411, CVFN 412, and CVFN 413. These courses comprise a course series; students who complete all four courses will receive a Professional Development Award. For more information, visit Course Series in Urban Agriculture.

39 Hours

Fee: \$608.09

🌱 Urban Agriculture Policy-Making

CVFN 413

This course discusses participatory policy formulation processes leading to sustainable development and institutionalisation of urban agriculture. It starts discussing tools and methodologies for analysing stakeholders, farming systems, land uses, and regulatory frameworks. Next steps involve strategic planning, followed by the formulation of action projects and policies and their implementation (considering contrasting disciplinary perspectives), and finally, monitoring and evaluation. The course highlights lessons from a wide array of cities around the world.

Note: This course has been developed in partnership with ETC-Urban Agriculture (ETC-UA) and the Resource Centre on Urban Agriculture and Food Security (RUAF), with technical support provided by The Chang School.

This course is part of a portfolio of four distance education courses on urban agriculture, including the following: CVFN 410, CVFN 411, CVFN 412, and CVFN 413. These courses comprise a course series; students who complete all four courses will receive a professional achievement award. For more information, visit Course Series in Urban Agriculture.

39 Hours

Fee: \$608.09

Foods

For information, contact Reg Noble, Academic Coordinator, Food Security, at food@ryerson.ca. Related certificate(s): Food Security

★ Social and Cultural Dimensions of Food

CFND 401

Prerequisite(s): FND 100 and FNN 100 Corequisite(s): FNN 201;

Students will critically examine the socially constructed meanings of cuisine, culture, multiculturalism, race, and ethnicity. The cultural impact of Canadian immigration trends provides the backdrop for a major project that enables students to explore diversity through cuisine.

Note: Please be aware that this course is only available in classroom to degree program and special students. Students wishing to enroll in this course should contact the Academic Coordinator, Reg Noble, at food@ryerson.ca for more information.

78 Hours

Fee: \$593.72

Professional Practice

For information, contact Reg Noble, Academic Coordinator, Food Security, at food@ryerson.ca. Related certificate(s): Food Security

★ Professional Practice: Placement

CFNP 400

Prerequisite(s): Department consent

This course is designed to provide experiential learning opportunities in health, business, community and educational settings. Students will be expected to reflect on (1) their own professional and leadership potential, and (2) the evolution of their profession with respect to their future contribution to nutrition practice.

Note: Please be aware that this course is only available in classroom to degree program and special students. Students wishing to enroll in this course should contact the Academic Coordinator, Reg Noble, at food@ryerson.ca for more information.

39 Hours

Fee: \$593.72

Research Methods

For information, contact Reg Noble, Academic Coordinator, Food Security, at food@ryerson.ca. Related certificate(s): Food Security

★ Independent Research Study I

CFNR 400

Prerequisite(s): FNR 310

This course is designed for students who wish to pursue a research project with a faculty advisor beyond the FNR 310/320 level. Students must have at least an A- average in the relevant discipline and the approval of the supervising faculty member.

Note: Please be aware that this course is only available in classroom to degree program and special students. Students wishing to enroll in this course should contact the Academic Coordinator, Reg Noble, at food@ryerson.ca for more information.

39 Hours

Fee: \$589.48

FRENCH

These courses cover French language, literature, and culture. For French language courses (CFRE), all students must take the French Placement Test on the Department of Languages, Literatures, and Cultures website or attend one of our interview/placement assessment sessions.

French Studies courses (CFRS) are taught in English and cover French literary and cultural topics.

French

Related certificate(s): Business Communication, Business French and Translation, French, Proficiency in

☆ Introductory French I **CFRE 101**

Classes use a communicative approach and the emphasis is on oral proficiency, although reading and writing skills are also developed. Through extensive practice in class, students acquire the basic vocabulary and constructions of French. Classwork is supplemented by handouts, audio recordings and cultural readings. Not open to students who have completed Gr. 12 French. An online placement test is required. (LL)

39 Hours

Fee: \$530.07

★ Introductory French II **CFRE 201**

This course uses a communicative approach and although the emphasis is on oral proficiency, reading and writing skills are also further developed. Through extensive practice in class, students develop their knowledge of the basic vocabulary and constructions of French. Classwork is supplemented by handouts, audio recordings and cultural readings. Not open to students who have completed Grade 12 French. A online placement test is required. (LL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.52

★ Intermediate French I **CFRE 301**

This course for students with intermediate high school French skills includes cultural readings and excerpts from the media. The course further develops the student's ability to understand, speak, read and write French. A online placement test is required. (LL) (UL)

Note: All students who have not completed CFRE 201 must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.52

★ Intermediate French II **CFRE 401**

This course emphasises the four essential skills of understanding, speaking, reading and writing French. Students will develop their knowledge of French through analysis of excerpts from contemporary media as well as cultural readings, including short fictional texts. Presentations, debates and discussions are used to enhance the students' skills in spoken French. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.52

★ French Conversation and Pronunciation **CFRE 402**

This intermediate PR/PE course is intended to enhance oral proficiency by focusing on vocabulary, syntax, auditive comprehension, pronunciation and intonation. Students will improve their French through a range of activities including the analysis of audiovisual materials, films and plays as well as discussion of written texts from newspapers, advertisements and business news. An online placement test is required.

Note: If a student has completed, or is currently taking, one of the following courses while enrolled in CFRE 402, an interview/placement assessment is not required: CFRE 301, CFRE 401, or CFRE 501. Otherwise, the student must take the French online placement test before enrolling in this course.

39 Hours

Fee: \$522.64

★ Speaking and Writing French I **CFRE 501**

Designed for students with good oral skills in French who wish to review major grammatical structures, develop vocabulary, and improve their writing. Course emphasizes differences/parallels between written and oral French, and development of variety in writing style. Writing assignments based on essays, literary works, press articles, etc., chosen to illustrate styles and levels of contemporary written French. A literary work will form the basis for class discussions and written work. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$515.21

★ Advanced Business French I **CFRE 502**

Prerequisite(s): CFRE 515 or placement test

Students with a good background in the language will find this course helpful in improving their ability to use French in business transactions and communications. There is an emphasis on developing business vocabulary, particularly correspondence formulae and terminology. Differences between English and French writing protocol is stressed.

Note: All students must take an interview/placement assessment before enrolling in this course.

CFRE 502 and CFRE 507 can be taken in the same term.

39 Hours

Fee: \$507.79

★ Language and Culture I **CFRE 505**

This course introduces students to elements of cultural studies, literary and linguistic analysis while developing an appreciation of French language and culture. Students will examine texts from various sources, including some complete works of representative French authors and journalistic writing, advertising, scholarly articles. Basic essay skills and organization form an integral part of the course. Special attention is given to complex grammatical structures, various language registers both written and oral and sociolinguistic issues in French. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ English-French Translation I **CFRE 507**

Students at this level are well-acquainted with most of the rules of French grammar. This course concentrates on furthering this knowledge through the development of English to French translation techniques. Through numerous exercises, students learn to express the same concepts naturally in the target language, without undue interference from the source language. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

CFRE 507 and CFRE 502 can be taken in the same term.

39 Hours

Fee: \$507.79

★ Intro to 20th C French Literature I **CFRE 508**

This course will examine the major literary currents in French literature from the Belle Époque to World War II, as well as the historical and cultural events connected with them. After an introduction to the popular bourgeois farces, the roman fleuve, and detective fiction, this course will focus on the emergence of new literary movements, such as naturalism, symbolism, dadaism, surrealism, and existentialism. Students will analyze these movements through the study of prose, poetry, theatre and theoretical texts. (LL) (UL)

Note: Students without the prerequisite must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ Franco-Canadian Literature I **CFRE 509**

This course presents Quebec and French-Canadian literature from the beginning of the twentieth century until the end of the Quiet Revolution. Students will consider the aesthetic originality, the critical reception and socio-historical context of representative works by authors such as Emile Nelligan, Gabrielle Roy, Anne Hébert, Antonine Maillet, and Michel Tremblay. Topics will include the roman de la terre, surrealism, automatism, the literary use of joul and the Parti pris movement. (LL) (UL)

Note: Students without the prerequisite must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ Effective Writing I **CFRE 510**

This course is for students with sound knowledge of French who wish to review major grammatical structures, develop vocabulary, and improve their writing. Through writing exercises, the course emphasizes clear explanation of French grammar, differences/parallels between written and oral French, use of precise terminology, and development of variety in writing style. Writing assignments are based on excerpts from essays, literary works, press articles, etc., chosen to illustrate styles and levels of contemporary written French. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$515.21

★ Introduction to Business French **CFRE 515**

This PR/PE course introduces students to business French while continuing to develop their general competence in French. Students learn to master vocabulary specific to business, banking and administration, while becoming aware of formal and informal styles of written and spoken French suitable to the workplace. Materials include newspaper and journal articles as well as videoclips from business news. The language of instruction is French. This course is not open to native French speakers.

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ Speaking and Writing French II **CFRE 601**

Designed for students with good oral skills in French who wish to master major grammatical structures, develop vocabulary, and hone their writing skills, this course stresses the importance of distinguishing written from oral French and of developing of variety in writing style. Writing assignments based on essays, literary works, press articles, etc., chosen to illustrate styles and levels of contemporary written French. A literary work will form the basis for class discussions and written work. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$515.21

★ Advanced Business French II **CFRE 602**

Students with a solid background in the language will find this course helpful in perfecting their ability to use French in business transactions and communications. There is a strong emphasis on developing business vocabulary, particularly correspondence formulae and terminology. Differences between English and French correspondence protocol is highlighted.

Note: All students must take an interview/placement assessment before enrolling in this course.

CFRE 602, CFRE 607, and CFRE 707 can be taken in the same term.

39 Hours

Fee: \$507.79

★ Language and Culture II **CFRE 605**

This course is for students who wish to further their knowledge of cultural studies, as well as literary and linguistic analysis. While gaining an appreciation of the language and culture of the Francophone regions outside Europe, students examine texts of all types. Essay-writing skills and organization form an integral part of the course. Special attention is given to language registers both written and oral as well as sociolinguistic issues in the Francophone world. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ English-French Translation II **CFRE 607**

Students at this level are well-acquainted with all of the rules of French grammar. This course concentrates on making use of this knowledge through the development of a sound English-to-French translation methodology. Through exercises, students learn to express the same concepts naturally in the target language, without undue interference from the source language, using a variety of non-literary texts. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

CFRE 607, CFRE 602, and CFRE 707 can be taken in the same term.

39 Hours

Fee: \$507.79

★ Intro to 20th C French Literature II **CFRE 608**

French literature is characterized by various types of experimentation with form, content and generic boundaries. Students will be invited to discover texts ranging from avant-garde Parisian theatre to the Nouveau roman and contemporary autofiction. This course will examine issues such as colonization and decolonization, feminism, immigration and alienation, identity, marginalization and otherness. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$522.64

★ Franco-Canadian Literature II **CFRE 609**

This course presents Quebec and French-Canadian literature from the 1970s until present-day. Students will consider the aesthetic originality, the critical reception and socio-historical context of representative works by authors such as Normand Chaurette, Marie Laberge, Jean-Marc Dalpé, Daniel Poliquin, Nancy Huston, Dany Laferrière and Robert LePage. Topics include the Francophone diaspora in Canada, minority and immigrant literatures, exile and marginalization, and autobiographical writing. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$522.64

★ Effective Writing II **CFRE 610**

This course complements FRE510 and is for students with a sound knowledge of French wishing to develop vocabulary and improve their writing. Through writing exercises, the course emphasizes clear explanation of French grammar, differences/parallels between written and oral French, use of precise terminology, and development of variety in writing style. Assignments are based on excerpts from essays, literary works, press articles, etc., chosen to illustrate styles and levels of contemporary written French. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ French in the Media I **CFRE 701**

An advanced language course designed to improve significantly students' speaking, comprehension and writing skills through the analysis of contemporary issues and their representation in the francophone news media with an emphasis on journalistic and magazine writing. Topics broaden students' vocabulary, sensitize them to complex language structures and language registers. Oral presentations and debates focus on current events; students write short essays and work on a media-related project. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$515.21

★ Intro to Franco-Canadian Culture I **CFRE 704**

This course introduces students to twentieth century and contemporary Quebec culture. Students will examine forms of cultural expression such as cinema, television, visual arts, literature, music and popular culture. Topics include politics and popular song, language and language laws, hockey and its heroes, Quebec media, the role of religious institutions, immigration, feminism, relations with First Nations peoples, and the challenges of multiculturalism. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ The Life and Times of the French Language **CFRE 706**

This course is for students who wish to gain a better understanding of the breadth and wealth of contemporary French culture through a study of the evolution of the French language. Focusing on the contemporary evolution of the French language, including word origin and meaning, this course highlights the main cultural, political, and historical factors that influenced, and continue to influence, the development of the French language. (LL) (UL)

39 Hours

Fee: \$513.09

★ Introduction to French-English Translation **CFRE 707**

This course, taught in French, is designed to improve significantly students' appreciation of the general difficulties of translation from French to English, through a study of the characteristics of expression in each language and of the way they pertain to the difficulties of translation. Through numerous translation exercises, students learn to express the same concepts naturally in the target language, without undue interference from the source language. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

CFRE 707, CFRE 602, and CFRE 607 can be taken in the same term.

39 Hours

Fee: \$522.64

★ French in the Media II**CFRE 801**

An advanced language course designed to improve significantly students' speaking, comprehension and writing skills through the analysis of contemporary issues in the francophonie using multimedia. Topics broaden students' vocabulary, sensitize them to complex language structures and language registers. Oral presentations and debates focus on the representation of current events in a variety of media including websites, social media, advertising, videoclips; students write short essays and work on a multimedia-related project. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.52

★ French Theatre: 20th C and Contemporary**CFRE 803**

In this course, students will examine how theatrical conventions are challenged by authors who question the meaning of existence, and explore the limits of language and human relationships in our contemporary society. Possible readings include plays from the Theatre of the Absurd with Beckett and Ionesco as well as works by politically engaged playwrights who address topics such as exile and immigration, slavery and colonialism, race and gender. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ Intro to Franco-Canadian Culture II**CFRE 804**

This course introduces students to Franco-Canadian cultures outside Quebec. Cultural contrasts and continuity between Quebec, Acadian, Franco-Ontarian and Western French-Canadian communities will be emphasized. Students will examine forms of cultural expression such as cinema, television, visual arts, literature, music and popular culture. Topics include the French-Canadian diaspora, the Acadians and the Cajuns, bilingualism and language legislation as well as the cultural contributions of recent immigrants and the Métis. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ The Francophone Short Story**CFRE 903**

This course will focus on the Francophone short story and short story collections. Through study of this literary genre, students will develop skills in literary analysis. This course will also teach students about the diversity of francophone literature and culture. Authors studied may include Michel Tournier (France), Annie Saumont (France), Biorago Diop (Senegal), Calixthe Beyala (Cameroon), Assia Djebar (Algeria), Maryse Conde; (Guadeloupe), Rene Depestre (Haiti), Anne Dandurand (Canada) and Bernard Assiniwi (Canada). (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$606.45

French Studies

Related certificate(s): Caribbean Studies

★ French Caribbean Literature and Culture**CFRS 602**

This course, offered in English, will focus on the literature, culture and arts of the Francophone Caribbean (Martinique, Guadeloupe, Haiti). Issues of colonialism and postcolonialism, slavery and freedom, exile and immigration, tensions between race and gender, between languages (French and Creole) will be examined through poetry, novels, storytelling, theater, music and film analysis. Readings include major authors such as Césaire (father of negritude), Condé, Schwartz-Bart, Chamoiseau, J.J. Dominique. (UL)

39 Hours

Fee: \$576.75

FUNDRAISING MANAGEMENT

These courses provide a sound understanding of the role that fundraising can play in the charitable and voluntary sector. Interested students are encouraged to email the Community Services Program Assistant at m1johnso@ryerson.ca.

Fundraising Management

Related certificate(s): Fundraising Management

Operations of Fundraising

CVFM 201

Students will systematically examine the thinking and preparation needed to develop the infrastructure in support of effective fundraising. Topics all relate to the fund development process and include sound financial management practices, including accounting, budgeting, reporting, and accountability; policies; development and evaluation of a strategic fundraising plan; and the critical elements of a well-configured database. Drawing on case studies, readings, and research, students will apply the knowledge acquired to real life situations.

39 Hours

Fee: \$702.08

Donor Centered Fundraising

CVFM 202

Students will explore critical and emerging issues in the charitable sector: donor-centered fundraising trends and techniques; donor stewardship and recognition; developing a culture of philanthropy; ethics and professionalism; and diversity, social media, and new trends in donor engagement. Drawing on research, readings, and case studies, students will analyze issues that will inform current and future fund development practices.

39 Hours

Fee: \$702.08

Fundraising Campaigns

CVFM 203

Students will examine major gifts fundraising campaigns, within and outside of a capital campaign context, and planned giving programs. Course topics include organizational readiness (e.g., feasibility study, case for support, campaign planning, goal setting, budgeting, timelines); leadership (staff and volunteer leadership, organizational structure); managing the campaign (identifying prospective donors, monitoring and concluding the campaign, reporting); and the adaptations required for different sized organizations. Research in major gift fundraising will be reviewed.

39 Hours

Fee: \$702.08

Entrepreneurial Fundraising

CVFM 302

Approaches to corporate and foundation support will be examined from both the charitable sector and corporate/foundation perspective. The infrastructure necessary to support effective programs will be discussed: proposal and grant writing, donor identification, stewardship, and accountability. Research and practical application related to emerging trends and current practice will be reviewed: corporate social responsibility, sponsorship, cause marketing, and employee engagement. Entrepreneurial activities in fundraising will be explored, both by reviewing research and examining real-life examples.

39 Hours

Fee: \$702.08

Annual Giving Programs

CVFM 303

The role of annual giving will be explored, including its interconnectedness to other fundraising programs and how it cuts horizontally across the organization. Students will review fundamentals of direct mail, online, and other models of giving. Special events and their role in engaging and stewarding donors will be explored in addition to event conception, planning, and execution. Gaming as part of a philanthropy program will be explored, including a review of the regulatory framework.

39 Hours

Fee: \$669.89

GATEWAY FOR INTERNATIONAL PROFESSIONALS

International professionals often come to Canada with a breadth and depth of experience and credentials that simply aren't recognized here. The Chang School's Gateway for International Professionals offers programming in several areas that accurately assesses your skills and provides you with the education and experience needed to succeed in the Canadian workplace at levels that correspond with your qualifications.

Canadian Social Work Practice (IESW)

These courses are only open to internationally educated professionals with social service experience approved through the Internationally Educated Social Work Professionals (IESW) program admission process. Related certificate(s): Canadian Social Work Practice

★ Social Work Practice Seminar **CVSW 31A/B**

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry
Corequisite(s): CSWP 36A

Based on School's Mission, this first practice seminar provides students with social work knowledge and skills for practice. Building on various theoretical perspectives, with an emphasis on anti-oppression practice, this course explores the process of social work assessment and various change processes. This course builds on knowledge from previous social work courses and the current practicum experience. It provides opportunities for students to reflect on and apply theory to practice for skill development.

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

78 Hours Fee: \$1385.15

★ Field Practicum **CVSW 35A/B**

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry
Corequisite(s): CSWP 31A;

This first field practicum provides opportunities for students to have direct contact with service users. Each placement offers the student beginning level experience with an emphasis on understanding social work skills, values and ethics within the community, organizational and policy of context of practice. Most students attend placement two days a week for two semesters; alternate methods of completing this credit may be available to students with extensive prior experience or those undertaking an international placement.

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

364 Hours Fee: \$1385.15

🌐 Field Practicum for Internationally Educated Social Workers **CVSW 36A/B**

Prerequisite(s): Department consent

This field practicum provides opportunities for participants to have direct contact with 'client-consumers-people' in need. Each placement offers the participant beginning level interventions with individuals, couples, or families, and/or groups. In addition, the field placement will be completed with a community project or an outreach or community development activity. Students are in a field placement two days a week for two semesters. As well, a paid placement known as a work study option may be available.

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program. Placements are available in the Spring term.

200 Hours Fee: \$1385.16

★ Foundations of Social Work **CVSW 900**

Prerequisite(s): Department consent

This course is a critical examination of social work from Canadian and international perspectives, including its contexts, debates, values, ethics and principles of practice, functions, and activities. Attention is given to the major theoretical frameworks to social problems and responses. Drawing on anti-oppression perspectives, students will develop beginning analytical skills in understanding social work and the promotion of social justice with specific attention to Indigenous and Francophone populations. This section of the course specifically addresses the Canadian context to social work and social welfare for students with international qualifications and practice experiences. (Equivalent to SWP 130 and SWP 131.)

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

78 Hours Fee: \$1385.15

Introduction to Social Services in Ontario **CVSW 901**

Prerequisite(s): Department consent

This course is designed to reflect the specific needs of internationally educated professionals who have experience in the social service field. The course offers an orientation to social services in Ontario, including current labour market demands and expectations. It introduces students to the skills, knowledge and conceptual frameworks utilized in social services, with an emphasis on understanding sector-specific vocabulary, terminology and employment.

Note: This course is restricted to internationally educated professionals and requires consent from the IESW Bridging program.

30 Hours Fee: \$337.62

★ Special Topics I **CVSW 917**

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry

This course provides students with the opportunity to pursue advanced seminar studies on issues and themes of immediate and current significance in the field of social work, where the content of the proposed seminar is unavailable in the curriculum. Seminars will be offered where there is demonstrated student interest, and available faculty expertise in the subject.

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

39 Hours Fee: \$689.20

★ Special Topics II

Prerequisite(s): Department consent

This course provides students with the opportunity to pursue advanced seminar studies on issues and themes of immediate and current significance in the field of social work, where the content of the proposed seminar is unavailable in SWP 917 or in the curriculum. Seminars will be offered where there is demonstrated student interest, and available faculty expertise in the subject.

Note: This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

39 Hours

CVSW 918

Fee: \$689.20

Interviewing and Documentation in the Canadian Social Services Sector

Prerequisite(s): Department consent

This course is for experienced internationally educated social workers who would like to expand upon their existing skill sets in the Canadian context. Opportunities will be available to practice skills in interviewing clients, note taking and documentation used in counselling agencies, shelters, and hospital settings, etc. Learners will receive ongoing feedback from both the instructor and their classmates via client simulations, and guest speakers from the social sector.

30 Hours

CVSW 921

Fee: \$259.00

Dietetics (IDPP)

Dietetics plays an important role in health care, industry, government, and education. It influences the development and promotion of consumer products, nutrition information, quality food service in health institutions, and various public policy-making choices.

Orientation to Dietetics in Canada

COVID 101

Prerequisite(s): Department consent

In this module, learning will begin to examine professional standards and frameworks in dietetics, be exposed to the various roles of dietitians in the health and health care systems in Canada, and will reflect on individual bridging needs. This course is a mandatory requirement for other courses in the Internationally Educated Dietitians Pre-registration Program.

19.5 Hours

Fee: \$262.50

❖ Evidence-informed Practice

COVID 102

Prerequisite(s): Department consent

In this module, candidates will explore how evidence is used within dietetics practice in Canada, and will have opportunities to further develop skills in selecting, analyzing, summarizing, and presenting professional texts related to current issues in dietetics. This course is a mandatory requirement for other courses in the Internationally Educated Dietitians Pre-registration Program.

39 Hours

Fee: \$547.75

❖ Communication and Dietetics Practice

COVID 103

Prerequisite(s): Department consent

Using a variety of learning strategies, this course introduces values and frameworks that may influence effective communication with communities, clients, and colleagues. Learners will have the opportunity to begin to explore, practise, and analyze their own communicative skills in the context of dietetics practice. This course is a mandatory requirement for other courses in the Internationally Educated Dietitians Pre-registration Program.

19.5 Hours

Fee: \$227.12

❖ Food and Nutrition Foundations

COVID 104

Prerequisite(s): Department consent

Using both self-directed and facilitated approaches, learners will have an opportunity to review fundamental knowledge related to food, nutrients, and nutrient metabolism. In this module, learners will also be oriented to nutrition care processes in Canada. This course is a mandatory requirement for other courses in the Internationally Educated Dietitians Pre-registration Program.

29 Hours

Fee: \$393.75

❖ Intercultural Communication and Dietetics Practice

COVID 500

Prerequisite(s): Department consent

Using learning scenarios and simulations, this course will familiarize candidates with values and frameworks that influence communication with colleagues and clients. Explicit attention will be paid to the possible socio-cultural factors which influence communication. Candidates will have opportunities to explore, practice, analyze and enhance their own communicative skills in the context of dietetics practice. (This course requires personal disclosure and self reflection.)

42 Hours

Fee: \$757.75

❖ Dietetics Practicum (PLA and Portfolio Formation)

COVID 502

Prerequisite(s): Department consent

This course will help candidates become more familiar with standards for entry into dietetics practice in Canada so they are prepared to enter practicum placements. It will also assist candidates in enhancing their capacity to document professional knowledge, skills, and practical experiences for professional registration purposes. Specific emphasis will be given to the integration of prior experiences with learning gained within the IDPP.

42 Hours

Fee: \$705.25

❖ Dietetics Practice in Canada III

COVID 504

Prerequisite(s): Department consent

This course examines the management of food service systems and its integration with nutrition care. Food service management functions are explored in the areas of human resources and quality and financial controls. Dietetic applications related to therapeutic and texture modifications, food aesthetics, and client consumption patterns are considered from the perspective of the client in the provision of services within a Canadian context. The application of menu planning principles, aligned with provincial standards, is discussed.

This course consists of online modules in addition to those on campus.

Full-day classes include a one-hour lunch break from 12:30 p.m. to 1:30 p.m.

45 Hours

Fee: \$757.75

❖ **Dietetics Practicum Management** **CVID 505**

Prerequisite(s): Department consent

The practicum will provide candidates with an opportunity to demonstrate competencies required for entry into dietetics practice in Canada. Candidates will complete a self-directed project with an administrative focus. The scope of each project will be developed individually by the candidate, and is supported and facilitated by a Registered Dietitian.

75 Hours Fee: \$796.60

❖ **Dietetics Practice in Canada I** **CVID 511**

Prerequisite(s): Department consent

Using an interdisciplinary and multi-level framework, this course will examine key aspects of dietetics practice in Canada. Dietetics practice will be positioned within an evolving health and health care context. Candidates will become familiar with Canada's health system's main structures and practice models, discuss and analyze health and its multiple determinants, and explore population health and health promotion frameworks, models, and strategies. Program planning and evaluation will also be explored.

Note: This course consists of online modules in addition to those on campus.

42 Hours Fee: \$705.25

❖ **Dietetics Practice in Canada II** **CVID 514**

Prerequisite(s): Department consent

Using an interdisciplinary framework, candidates will be exposed to current models/dietetic practices related to the nutrition care of acute and chronic conditions in Canada. Dietetic practices will be positioned within an evolving health care context. Opportunities to consolidate, integrate, and apply understandings of current dietetics practice within the Canadian health system will be offered through perspective-building case studies, simulations, and other practice-based learning experiences. This course emphasizes critical analysis and skill development/demonstration.

96 Hours Fee: \$1466.50

❖ **Enteral Nutrition Assessment** **CVID 515**

Prerequisite(s): Department consent

Using case-based scenarios, this module provides an opportunity to practice and demonstrate assessment, planning, implementation, monitoring, and evaluation skills in enteral nutrition as part of nutrition care.

22 Hours Fee: \$326.55

❖ **Parenteral Nutrition Assessment** **CVID 516**

Prerequisite(s): Department consent

Using case-based scenarios, this module provides an opportunity to practice and demonstrate assessment, planning, implementation, monitoring, and evaluation skills in parenteral nutrition as part of nutrition care.

22 Hours Fee: \$326.55

❖ **Project Proposal Development** **CVID 519**

Prerequisite(s): Department consent

This course will support candidates in the planning and development of a proposal for a self-directed project, with an administrative focus, in the field of dietetics.

Note: Time spent in the field may vary based on the structure of projects for which the proposal is being developed. At minimum, this time may include meetings with representatives of the organization(s) for whom the proposal is being developed, as well as a half- to full-day visit to the organization.

22 Hours Fee: \$326.55

❖ **Dietetics Practicum - Pop and PH** **CVID 520**

Prerequisite(s): Department consent

This course provides a minimum of six weeks of supervised practical experience in dietetics in Ontario, with a particular focus on experiences related to health promotion/disease prevention for populations. It offers opportunities for candidates to apply learning acquired through both their prior dietetic experiences and the IDPP on-campus component, and is tailored to individual assets and learning needs. Candidates will identify and document their learning accomplishments and competencies.

225 Hours Fee: \$796.60

❖ **Dietetics Practicum - Nutrition Care** **CVID 521**

Prerequisite(s): Department consent

This course provides a minimum of six weeks of supervised practical experience in dietetics in Ontario, with a particular focus on experiences related to the nutritional management of disease. It offers opportunities for candidates to apply learning acquired through both their prior dietetic experiences and the IDPP on-campus component, and is tailored to individual assets and learning needs. Candidates will identify and document their learning accomplishments and competencies.

225 Hours Fee: \$796.60

Internationally Trained Medical Doctors (ITMD)

❖ **Health Research Methodology** **CKHS 100**

In this course, students will develop an understanding of the components of the research process in Canada. Students will learn quantitative and qualitative methods, including design, analysis, and interpretation. This course will also provide students with an understanding of how to apply research results, including the application of multiple research methods in the measurement of Canadian health system performance.

30 Hours Fee: \$549.00

❖ **Health Informatics and Data Management** **CKHS 110**

This course will provide students with an introduction to health informatics, including the collection and management of health data in Canada. Students will familiarize themselves with key statistical concepts and procedures used in the analysis of data, including descriptive and inferential statistics. This course will also provide students with an overview of electronic health records (EHRs).

30 Hours Fee: \$549.00

❖ Fund of PM for Health Professionals

CKHS 120

Prerequisite(s): Department consent

In this course, students will develop an understanding of project management concepts, principles, and techniques, including scope, quality, time, cost, risk, procurement, and communication management. Students will learn how to apply these functions in an integrated manner to successfully manage a project through each stage of the project life cycle. The course explores the role of the project manager and the project management team in implementing and controlling a project.

30 Hours

Fee: \$549.00

❖ Practicum Placement

CKHS 130

In this practicum placement, students will be provided with an opportunity to integrate, synthesize, and apply health knowledge and skills acquired in the bridging program courses to a health services organization setting. Students will grow and develop the interpersonal, communication, and problem-solving skills needed to function in a professional health services environment in Canada.

100 Hours

Fee: \$0.00

NEW

❖ Health Pro Comm and Ldshp Skills

CKHS 140

Prerequisite(s): Department consent

This course will provide students with an overview of health service organizations workplace communication and leadership in Canada. Students will learn the norms of Canadian health sector specific professional culture and communication strategy and will learn how to apply spoken, written, and non-verbal communication skills for greater professional success. This course also aims to provide students with a roadmap to the development of health sector leadership capabilities, and in-depth self-assessment of leadership and communication skills.

30 Hours

Fee: \$549.00

Workplace Communication in Canada (WCC)

Related certificate(s): Entrepreneurship and Small Business, Project Management for Technical Professionals

NEW

❖ Intro to Intercultural Communication

CDCE 305

This course focuses on enabling students to understand how significant cultural traits affect communications within organizations. Students will learn how to develop successful communication strategies for a diverse workplace. Particular attention will be devoted to managing conflict and profiling individual expertise. Students will also be provided with critical thinking skills and a framework within which to manage other intercultural situations they may encounter that are not covered in the course material.

39 Hours

Fee: \$596.40

NEW

❖ Managing Workplace Relationships

CDCE 306

This course focuses on providing students with the skills and concepts to create and maintain their professional profiles. Students will learn how to create effective first impressions with potential employers and while employed. Particular attention will be given to helping students profile expertise in a manner that is constructive and accessible to non-experts. Students will also learn and practice how to effectively manage “non professional” informal communication such as gossip and rumour.

39 Hours

Fee: \$596.40

NEW

❖ Wking with Culturally Diverse Clients

CDCE 307

This course focuses on providing superior quality client service in an intercultural environment. Students will learn the value of effective client service and how to provide it in an intercultural setting. In particular, students will learn how to deliver quality client service within the enterprise (e.g., to peers and management) as well as outside the enterprise (e.g., to paying customers and vendors).

39 Hours

Fee: \$596.40

NEW

❖ Cross Cultural Teamwork

CDCE 308

This course equips students to function effectively in cross cultural teams. Students will investigate the specific challenges of working in cross cultural groups within the well documented context of team dynamics and the difficulties teams face with delivering on their tasks. The focus is on providing students with practical strategies and techniques that can be used in a wide range of teamwork situations.

39 Hours

Fee: \$596.40

❖ Formal and Informal Communication in the Workplace

CDCE 310

This course is designed to help international professionals enhance personal and professional success by using effective means of formal and informal communication in the workplace. By the end of this course, the learners will have developed skills in the areas of active listening, empathy, giving and receiving constructive feedback, and writing effective formal communication documents. Successful learners will start familiarizing themselves with strategies to effectively deal with conflict in the workplace and practice skills in writing formal documents such as emails, meeting minutes, and reports. Through workplace simulated scenarios and case studies, participants will learn to effectively manage common formal and informal conflict situations in the workplace and practice receiving and providing feedback in a safe environment fully supported by professional coaching.

Note: The scheduling below includes a mandatory weekly Internet component.

39 Hours

Fee: \$596.40

❖ Advanced Customer Focused Applications

CDCE 320

This course is designed to help international professionals explore and practise customer focused behaviours common to the Canadian workplace in a safe environment fully supported by professional coaching. Through practical simulations and case studies, participants will practise strategies of dealing with common customer related situations and issues related to client-driven environment, while applying relevant evidence-based practice methods.

Note: The scheduling below includes a mandatory weekly Internet component.

39 Hours

Fee: \$596.40

✦ Effective Persuasion and Public Speaking

CDCE 330

This course is designed to provide international professionals with practical persuasion, negotiation, and presentation skills essential to professional success in the Canadian workplace. Participants will explore cultural influences on business negotiations and develop a solid understanding about the role and value of effective public speaking in the workplace. By the end of the course, the participants will have acquired and practiced skills for designing and delivering persuasive and impactful presentations. In addition to persuasive writing and negotiating skills, successful participants will also learn and demonstrate effective networking and self-advocating skills through interactive, workplace-related activities.

Note: The scheduling below includes a mandatory weekly Internet component.

39 Hours

Fee: \$596.40

✦ Teamwork and Organizational Behaviour

CDCE 340

This course is designed to help international professionals enhance professional success through practising effective behaviours in the Canadian workplace environment. Through simulations and case studies learners will practise dealing with culturally and ethically challenging situations in the workplace, personal career planning, networking, strategic planning, and effective team and group work. Learning will be conducted in a safe environment fully supported by professional coaching.

Note: The scheduling below includes a mandatory weekly Internet component.

39 Hours

Fee: \$596.40

✦ Exploring Leadership Skills

CDCE 400

Prerequisite(s): Department consent

This course will provide professionals who were educated and or trained outside of Canada with a roadmap to the development of leadership capabilities by identifying individual strengths and needs for enhanced professional communication skills. This course aims to inspire participants through in-depth self-assessment of leadership skills, analytical exploration of success stories, and active participation in applied case studies and live simulations related to leadership roles in the Canadian context.

Note: The scheduling below includes a mandatory weekly Internet component.

30 Hours

Fee: \$447.40

✦ Effective Oral Communication

CDCE 910

This course is designed for international professionals who require improvement of their oral communication in the workplace. The course will offer bi-weekly classes of highly experiential activities using real life Canadian workplace activities. Participants will improve their fluency, clarity, and overall oral communication skills in a supportive and creative learning environment.

39 Hours

Fee: \$596.40

GEOGRAPHY

The Department of Geography and Environmental Studies offers a wide range of courses on demographic analysis, digital geography, and Geographic Information Systems (GIS) and their various applications. These courses give a broad perspective on human/environment interactions in different contexts.

Demographic Analysis

Related certificate(s): Demographic Analysis, Global Diasporas, Transnationalism, and Migration Cities

✦ Principles of Demographic Analysis

CODA 100

Students will undertake data exploration to support theoretical explanations of the impact of core demographic variables (fertility, mortality, and migration) on population counts, growth, composition, and structure. Students will investigate human populations in relation to their sociological determinants and consequence. The course concludes with an examination of the direction of population change and the impacts on Canadian society.

39 Hours

Fee: \$730.66

✦ GIS Applications in Demography

CODA 110

This course introduces geotechnology applications to demographic analysis, specifically the use of GIS for spatial analysis of demographics. Students will have the opportunity to synthesize their learning about demographic issues with hands-on use of GIS applications built on census data analysis through discussions and the presentation of case studies related to a variety of issues including the implications of demographic change for health care, social services, education, the economy, etc. Lectures will include illustrative case studies applied to demographic and settlement patterns at provincial, municipality, and neighbourhood scales within Canada, with emphasis placed on Canada's urban centres.

39 Hours

Fee: \$730.66

✦ Advanced Demographic Applications

CODA 120

Prerequisite(s): Department consent

This capstone course brings together the skills, knowledge, and tools acquired in the courses which have preceded it, and it requires their application to 'real-world' demographic applications. The best, affordable, current demographic software will be used in lectures and workshops to create life tables and population projections, including migration, for both small- and large-scale analysis. Examples of demographic analysis will be drawn from applications commonly used by school boards to project future school populations and adjust school boundaries, by energy suppliers, and by urban planning departments to project energy needs and the demand for building permits, etc. In addition to the use of statistical software such as SPSS, Haley demographic software will be introduced if it is available.

Note: This is a project-based, independent study course.

39 Hours

Fee: \$765.89

Digital Geography

Related certificate(s): Applied Digital Geography and GIS, Applied Digital Geography and GIS, Advanced, Community Engagement, Leadership, and Development, Computer Programming Applications, Demographic Analysis, Ethics

★ Spatial Databases and Digital Cartography **CODG 101**

Prerequisite(s): Department consent
Antirequisite(s): CODG 100 and COGT 100

This course introduces the fundamental concepts of digital spatial databases and cartography to students enrolled or contemplating enrolment in the Certificate in Applied Digital Geography and GIS. Spatial data, that is, data that are geographically referenced, are at the core of a geographic information system (GIS). The ways in which spatial data are structured in a database have enormous implications for their use and the ways in which the data are mapped have important consequences for their interpretation. This course will explore the processes of spatial data collection, input and display, and the basic geographic and cartographic principles underlying those processes. Thus it will focus specifically on the nature of spatial data, database structures, and the visualisation of digital spatial data. Both ArcGIS and MapInfo Professional GIS software will be used.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$696.17

★ Digital Geography and Spatial Analysis **CODG 102**

Prerequisite(s): Department consent
Antirequisite(s): CODG 110 and COGT 110

This course introduces students to the geographic principles underlying the analytical capabilities of geographic information systems (GIS) and provides the 'hands-on' opportunity for students to utilize GIS for spatial analysis. Specifically, students will have experience with thematic mapping, attribute querying and spatial selection, geocoding, buffering, manipulating layers, basic topologic transformations, as well as implementation issues in the workplace. At the end of this course, students should have fundamental knowledge and skills in utilizing GIS to perform a variety of analytical applications.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$696.17

🔄 Digital Geography Applications in Utilities Planning **CODG 123**

Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)

Geographic Information Systems provide utilities planners and managers with an array of analytical and productivity enhancing tools for managing data. In this course, practical knowledge and skills related to the understanding and use of digitally represented geographic databases are introduced. Emphasis will be given to linear networks such as gas, water, transportation, and electrical distribution facilities.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$790.89

🔄 Digital Geography Applications in Business Decision-Making **CODG 124**

Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)

This course is directed at students wishing to apply digital geography and GIS solutions to business location problems. The course outlines the role of GIS in business decision-making. Topics include market area analysis, geodemographics, database acquisition and management, data mining, data quality, statistical analysis, software/hardware platforms, and georeferencing established business data.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$790.89

🔄 Digital Geography Applications for the Municipal Professional **CODG 125**

Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)

The course is directed at students wishing to apply digital geography and GIS in municipal settings. The course considers GIS as mission-critical business tools for municipalities as it develops students' technical skills with GIS software. Topics include enterprise GIS, publishing and access to information, mobile GIS, data standards, governance, best practices, data dissemination issues, and municipal business solutions.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$790.89

🔄 Digital Geography Applications in Environmental Management **CODG 126**

Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)

This course is directed at students wishing to apply GIS solutions in managing the diverse data representing the natural and human environment. This course uses both theoretical concepts and hands-on GIS experience in order to provide students with the knowledge and skills necessary for effective use of GIS in environmental management.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

🔄 Digital Geography Applications in Community and Social Services **CODG 127**

Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)

This course explores the variety of ways in which geographic information systems (GIS) are utilized in the development and management of community and social services. Educational administrators, health professionals, police and social agencies have come to depend on GIS for strategic planning and day-to-day operations. This course focuses on the analytical capabilities of GIS and their potential uses for the improvement of social infrastructure. For example, network analysis can be employed by social service providers to determine a new location based on public transit access and also by school boards to determine optimal school bus routes; cluster analysis can be employed by crime analysts to determine hot spots of criminal activity to increase patrols; and also by epidemiologists to identify areas of disease. Special attention is given to data issues and students will be able to enhance their knowledge and skills of Microsoft Excel and Access as well as ArcGIS and MapInfo Professional.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

🗺️ Legal and Ethical Issues in GIS and Digital Data **CODG 130***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

The advent of digital data and the transmission and manipulation of that data, especially in an Internet environment, have raised some particular legal, ethical, and practical issues. This course explores those issues concerning the use of digital data and software, including the liability of misinformation and the responsibility for errors, contractual provisions and exclusionary clauses, copyright, trademark law and ownership of data and software, privacy and the ability to access information and data, as well as the issues related to the introduction of digital data and information as evidence in court proceedings.

39 Hours

Fee: \$758.47

🗺️ Issues and Innovations **CODG 131***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

This course is designed to provide the student with up-to-date information on new trends and products in geographic information systems. Topic areas are designed to change as technology and issues change.

39 Hours

Fee: \$758.47

★ Customizing GIS Software: Applications Programming **CODG 132***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

This course advances the efficient uses of spatial databases and GIS. The focus is on the refinement of the operation of GIS via customizing graphic user interfaces (GUIs), macro languaging and scripting. Use of market-leading tools will provide the means for developing the skills required for automating spatial processing algorithms. Equivalent to GEO 541.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$696.17

🗺️ Map Algebra: Topology and Overlay **CODG 133***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

How is information extracted from digital maps, air photographs, or satellite images? This course examines the logic and steps involved in fulfilling information needs via the manipulation of available layers from such products, using such operations as searching, selecting, sorting, regression, overlay, reclassification, cross tabulation, and other methods.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

★ Digital Image Processing and Applications **CODG 135***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

This course investigates the principles of remotely sensed digital data, the techniques used to process digital images, and the applications to spatial decision making. The formats of digital image data and the procedures used in image rectification and registration, image enhancement, and image classification are examined. There will be an emphasis on utilizing digital image data within a GIS. A number of specific applications within resource management, environmental impact assessment, and urban and regional planning will be undertaken to demonstrate the value of such integration in solving geographic problems. Equivalent to GEO 542.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees..

39 Hours

Fee: \$696.17

🗺️ Web Mapping **CODG 136***Prerequisite(s): (CODG 100 or CODG 101) and (CODG 110 or CODG 102)*

This course will examine Web 2.0 technologies including Google Maps, Virtual Earth, the concept of 'Mash ups', crowd sourcing, cloud computing, resource oriented architectures, all in the context of digital web mapping and online GIS analysis with respect to the neogeography movement (non-expert users). Online mapping technology will be combined with online information sources to create new ways of effectively delivering geospatial analysis. Attention will be given to developing cartographically appealing and appropriate high impact websites while optimizing usability and performance.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$790.89

Digital Geography Applications **CODG 150**

By means of two experts' presentations and class discussion, this computer lab-based demonstration workshop offers opportunities to the lay public to gain an appreciation of the variety of ways in which geographic information systems (GIS) are utilized by educational administrators, health professionals, police, criminal analysts, social work professionals and epidemiologists in the development and management of community, social, and health services. Topics explored include how GIS and cluster analysis are deployed to decide school locations based on public transit availability; to determine hot spots of criminal activity to increase patrols; and to identify areas of disease for disease control efforts.

2 Hours

HST included

Fee: \$0.00

🗺️ Spatial Database Management Systems **CODG 210***Prerequisite(s): CODG 132*

GIS professionals often need to work with very large datasets, both within and outside of a GIS. This course examines the management of those data, from modelling geographic space in different ways appropriate for user needs, to utilizing query languages specific to spatial data, and being able to integrate data in different formats. In addressing those topics, special focus will be put on the current object-relational database model and ESRI's ArcSDE. The importance of data warehousing to spatial decision-making will also be addressed.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$790.89

🔗 Advanced GIS Programming

CODG 211

Prerequisite(s): Department consent

This advanced-level course is intended for students that have previous programming experience in Python and a strong interest in programming specifically for solving spatial problems. We will look at both a mainstream commercial product (ESRI's ArcGIS Desktop) as well as numerous free open source spatial and non-spatial toolsets. Students will build upon their solid foundation in Python by working with numerous python libraries that are commonly used to integrate, customize, automate, and extend GIS technologies to meet the requirements of end users.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

🔗 Spatial Statistical Methods

CODG 212

Prerequisite(s): Department consent

This course is designed to provide GIS practitioners with a number of statistical tools that will enhance their analysis of spatially related phenomena. Three broad areas will be examined: clustering, spatial autocorrelation and spatial autoregression; interpolation using a variety of techniques including Kriging; and data mining. Each section is introduced by briefly examining standard, non-spatial statistical methods and contrasting them with the spatial techniques that will move understanding of spatial relations beyond the mere visualization to the exploration and modelling of spatial data.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

🔗 Internet GIS

CODG 213

Prerequisite(s): Department consent

This course will examine the impacts of the Internet on traditional GIS by comparing the components of a distributed GIS with the traditional desktop platform. Investigation of Internet technologies that have made Web mapping and analysis possible will prepare students to work with a variety of these technologies. The course will also focus on the important elements of Web server administration, including running, setting up, and maintaining websites using different authoring technologies.

Not offered in fall/winter/spring 2015–2016.

39 Hours

Fee: \$755.66

🔗 GIS Implementation

CODG 220

Prerequisite(s): Department consent

This course is designed to provide a critical overview of the step-by-step procedures used in managing a GIS project from its inception through its development as a strategic plan to the management of its implementation. Opportunities will be provided for those working in the field to critically examine the project management approaches used within their organizations. Those who are not currently working in the GIS field will be given an opportunity to develop and carry forward a project through every step of the process as if they were acting as outside consultants in a field of their choosing.

Note: This is an independent study course.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

🔗 GIS Project

CODG 221

Prerequisite(s): Department consent

This course gives students the opportunity to work in a team and to consolidate their technical and conceptual knowledge by using a Geographic Information System to solve a real-world problem. It is important that students define their project so that it can be undertaken in one semester using data that are currently available. It is expected that students will use the skills developed in their specialty courses to define and carry out their analysis.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

39 Hours

Fee: \$755.66

Environment and Urban Sustainability

Related certificate(s): Social Sciences and Humanities Foundations

★ Environment and Sustainability

CEUS 102

This course provides an introduction to the social, economic and environmental dimensions of sustainability in cities, particularly establishing the theoretical bases and understanding of the broad range of environmental problems that result when consumptive economies exploit their physical resources.

39 Hours

Fee: \$654.19

★ Sustaining the City's Environments

CEUS 202

This course provides insights into the promotion of geographically-balanced settlement structures, sustainable waste and water management systems, the efficient management of urban pollution, and effective and environmentally-sound transportation systems. These have been identified as being essential to sustaining the city's environment. Students will develop an environmental report card as their major project and will have the opportunity to see firsthand working urban systems of sustainability.

39 Hours

Fee: \$654.19

Geography

Related certificate(s): Criminal Justice and Criminology, Demographic Analysis, Global Diasporas, Transnationalism, and Migration Cities, Social Sciences and Humanities Foundations

☆ Geographies of Everyday Life

CGEO 106

This course examines environmental and spatial aspects of human life, primarily at the scale of the individual, the neighbourhood and the community. Specific topics to be considered include sense of place, mental maps, territoriality, community dynamics, and human impacts on the landscape. (LL)

39 Hours

Fee: \$595.84

★ Geography of the Global Village

CGEO 108

This course explores the ecological and demographic basis of globalization. Starting from a discussion of the impacts of the industrial revolution on current global socio-economic and environmental issues, this course examines population dynamics and quality of life indicators, the world food system and environmental deterioration. (LL)

39 Hours

Fee: \$595.84

☆ The Physical Environment**CGEO 110**

In this course, the physical environment is investigated from the perspective of appreciating the natural limits that earth systems impose. Themes in climatology, hydrology and geomorphology are examined in order to develop an understanding of how natural balances originate, and afford opportunities and constraints for a modern lifestyle. Specific topics include weather systems, water budgets, erosion by streams and waves, and the enhancement of stability in natural systems. (LL)

39 Hours

Fee: \$576.75

★ Energy, Earth and Ecosystems**CGEO 131**

This course takes a systems-based approach to understanding the dynamics of Planet Earth and how humans interact with it. The principles, concepts, and applications of physical and environmental geography are introduced through learning about the energy that drives our ecosystems, the resources on which we depend, and the environmental challenges facing Canadian society in a global context. One component of the course is field-based.

39 Hours

Fee: \$657.37

★ Location, Location, Location**CGEO 151**

This course provides an understanding of locational processes, especially those related to business (industry, retail, office) and residential land uses by concentrating on three themes. Social diversity examines how changing demographics create changes in neighbourhood characteristics. Economic restructuring considers how economic changes impact location and make-up of economic activities. Smart growth investigates managing city growth, while still maintaining healthy environments.

39 Hours

Fee: \$657.37

★ Regions, Nations and the Global Community**CGEO 206**

This course examines spatial and environmental aspects of human life, primarily at the scale of the region, the nation and the global community. Specific topics to be considered include migration, regionalism, spatial equity and global interdependence. (LL)

39 Hours

Fee: \$595.84

★ Marketing Geography**CGEO 301***Antirequisite(s): CGEO 302*

This course addresses the spatial aspects of business decision making. Emphasis is placed on measuring the factors and assessing the methods associated with site evaluation and market area analysis.

39 Hours

Fee: \$576.75

★ Retailing, GIS and Geodemographics**CGEO 419**

This course surveys practical, conceptual and methodological issues associated with the application of geographical techniques to retail marketing. A variety of GIS applications are introduced to delineate and analyse retail trade areas. The use of socioeconomic and demographic data at various spatial scales is emphasized. Methods include: geocoding, mapping, creation of market area profiles, population projections, clustering and interpretation of market segmentation data.

39 Hours

Fee: \$570.38

★ Regional Analysis of Canada**CGEO 505**

The regional structure of Canada provides the focus for this course. Attention is given to the internal characteristics and problems of various regions, and to the interrelations which bind the regions together in a national framework. Emphasis is placed upon regional disparity, regional development concepts, and social and environmental variables. (UL)

39 Hours

Fee: \$576.75

★ GIS, Geographic Data and Mapping**CGEO 581**

Students will learn about geographic data, and explore the power of visualization that comes from mapping them with Geographic Information Systems (GIS). GIS can transform data that are located on the earth's surface into information that can be utilized in social, economic, political and environment decision-making. Through lectures and labs, students will examine the use of GIS and maps in their own academic area of interest.

39 Hours

Fee: \$609.63

☆ cyberspace@geography.ca**CGEO 609**

This course will examine the historical development of world communications systems, with emphasis on the growth of contemporary geo-communication networks such as the Internet and the WWW, and their relationship to socio-economic and environmental geography. From world city systems to rural and marginalized places around the globe, the examination and analysis of cyberspace should prove useful in understanding a new geography characterized by many as the "death of distance." (UL)

39 Hours

Fee: \$576.75

★ Canadian Immigration: Patterns and Place**CGEO 691**

Offering a geographic perspective on Canadian immigration patterns and policies, this course examines the 'why, who and where' of Canadian immigrant experiences. There is a particular emphasis on the changes in Canada's spatial, social and economic landscapes as a result of Canadian immigration policies over time within the context of contemporary global economics and communication technologies and the inherent complexities of pluralistic societies.

39 Hours

Fee: \$576.75

☆ Technology and the Contemporary Environment**CGEO 702***Antirequisite(s): CGEO 703; Not available to students in Occupational and Public Health*

The contemporary world is influenced to a very considerable extent by technology. However, relationships between this technology and our environment continue to be the subject of considerable public debate. The geographic dimensions of these environmental controversies provide a convenient and meaningful framework for their analysis. In this course, both recurring and contemporary environmental issues are examined in terms of implications for North American society. GEO 702 is not available for credit to students who choose GEO 703. (UL)

39 Hours

Fee: \$576.75

★ The Inner Landscape of Culture**CGEO 720**

What does it mean to live as a member of a particular culture? This course addresses the concept of culture as both a reflection and a determinant of human experience. Examples from Canadian and global settings support an exploration of the elements and processes of culture. (UL)

39 Hours

Fee: \$654.19

☆ **The Geography of Recreation and Leisure**

CGEO 802

Antirequisite(s): CGEO 803

This course explores recreation and leisure from a number of perspectives. It examines the relationship between recreational choice and demographic and life-style correlates, technology, and faddism. It evaluates symbolic recreational environments and the role of natural areas. It explores many of the social and environmental costs associated with recreational development. GEO 802 is not available for credit to students who choose GEO 803. (UL)

39 Hours

Fee: \$576.75

★ **Recreation and Tourism Analysis**

CGEO 803

Antirequisite(s): CGEO 802

The growing importance of the recreation and tourism system in today's society has generated the potential for environmental impacts and development opportunities. This professionally related course examines the system and its role in the economy. Particular emphasis will be placed on planning, managing and developing recreation and tourism resources, and on identifying, measuring and evaluating impacts.

39 Hours

Fee: \$576.75

★ **The Outer Landscape of Culture**

CGEO 820

This course examines the ways in which cultures express themselves through natural, built, and symbolic landscapes. The nature and significance of cultural change are considered at both regional and global scales. (UL)

39 Hours

Fee: \$654.19

⊕ **Diaspora and Transnationalism**

CODS 101

The principle focus of this course will be on contemporary diasporas in the context of ever-accelerating globalization. Students will be introduced to the phenomenon of transnationalism, the multiple ties and interactions linking peoples and institutions across the borders of nation states. This course will demonstrate the ways in which contemporary transnational practices of global migrants are transforming cultural, social, political, and economic structures both within migrants' homelands and within their places of settlement.

39 Hours

Fee: \$623.13

⊕ **Research in Diaspora and Globalized Cities**

CODS 200

Prerequisite(s): CODS 101 and CGEO 691

This course will provide students with an opportunity to synthesize the skills, knowledge, and techniques acquired in the courses that form the Certificate in Global Diasporas, Transnationalism, and Migration Cities. Students will create an in-depth application to a real-world paradigm, scenario, or issue related to global diasporas, transnationalism, and migration cities. They will be required to present an academic paper. This capstone course provides an opportunity to develop advanced research, presentation, and writing skills in a specialized area of study.

39 Hours

Fee: \$623.13

GERONTOLOGY

These interdisciplinary courses cover topics concerned with aging and the promotion of quality of life for older adults.

Gerontology

Related certificate(s): Accessibility Practices: AODA and Beyond, Gerontology, Health Studies

★ **Ability, Disability and Aging**

CGER 298

Psychosocial, biophysiological, and behavioural changes occur as a result of the aging process and this course provides students with the knowledge to assess these changes. Assessment rating scales will be analyzed and students will be provided with the opportunity to observe a range of assessment interviews.

39 Hours

Fee: \$614.94

★ **Aging and the Individual**

CVGE 140

This course will explore the individual aging process focusing on normal and exceptional age related changes through biological, psychological, and socio-cultural frameworks. The dynamic interaction between the older person and the social and physical environments and the impact of these on the quality of life will be the unifying theme for this course. Teaching modes will include readings, lectures, a written assignment, discussion, and an experiential learning component. Equivalent to the Social Work 900 series elective course.

39 Hours

Fee: \$614.94

★ **Aging and Society**

CVGE 141

This course explores the societal factors that influence both the process and outcomes associated with aging including social role transition, sexuality, the role of the family and social supports, education, ethnicity, social policy, finance and economics, transportation, housing, and health care. Learning will be facilitated through a variety of teaching modes, which include readings, lectures, written assignment, discussion, and an experiential learning component. Equivalent to Social Work 900 series elective course.

39 Hours

Fee: \$614.94

★ **Understanding Research**

CVGE 205

This course provides students an understanding of the fundamentals of social science research applied to gerontology. Students learn how qualitative and quantitative research approaches are used to design studies, collect and analyze data, and interpret and evaluate research. Students will practice their planning and evaluation skills through the development of an evaluation proposal. Teaching modes will include readings, lectures, written assignments, an evaluation proposal, class discussion, and an experiential learning component. Equivalent to HSM 417.

39 Hours

Fee: \$621.30

✧ Consent, Capacity and Decision Making

CVGE 271

This course gives an intensive analysis of the Substitute Decisions Act, the Health Care Consent Act, relevant portions of the Mental Health Act and other related Ontario law that informs older adults, their substitute decision makers, family members and care providers of the substitute decision making framework in Ontario. The outcomes of this course are that students will be knowledgeable and conversant with consent, capacity and substitute decision making law in Ontario; that they will be able to correctly identify legal issues in substitute decision making fact situations; and they will be able to apply their knowledge of Ontario law in problem solving exercises.

39 Hours

Fee: \$646.93

★ Aging and Interpersonal Skills

CVGE 297

The aim of this course is to facilitate growth and awareness of self and one's interpersonal communication style. Emphasis is placed on communication with the elderly, and on attitudes related to aging and the aged. Equivalent to FNP 200.

39 Hours

Fee: \$614.94

GRAPHIC COMMUNICATIONS

Graphic Communications is one of the most vigorous and exciting industries in Canada today. The preparation of layouts, designs, files, proofs, and finished jobs in the printing industry require the use of advanced hardware, software, and technology. Knowledgeable and skilled professionals in the field are rewarded with challenging opportunities. Students may enroll directly into entry-level courses. No interview or portfolio is required.

Graphic Communications

Related certificate(s): Design Management, Graphic Communications

NEW

★ Introduction to Graphic Communications

CGCM 110

This course introduces students to graphic communications manufacturing processes with emphasis on the variety of methods available, and their application. Subject matter includes design, copy preparation, digital prepress, proofing, materials, various printing processes, post-press, sustainability, and accessibility considerations. Students learn about the global and Canadian impact of the print industry.

39 Hours

Fee: \$671.09

NEW

★ Graphic Communication Technologies

CGCM 111

Prerequisite(s): CGCM 110 or GRA 652

This course offers an in-depth examination of the technologies and processes used to design, process, print and output jobs for a variety of end-use applications. Subject matter includes image capture and manipulation, file formats and resolutions, screening, premedia considerations, plate output, and conventional and digital printing processes, systems, and equipment. Students also learn about related non-print media output applications. Issues surrounding health and safety are discussed.

39 Hours

Fee: \$671.09

NEW

★ Graphic Communications Processes 1

CGCM 120

This introductory lab-based course provides students with an experiential overview of the complete graphic communications process. Projects will explore concept and design, premedia, printing, and binding and finishing. Projects include one and two-colour printing, such as business cards, labels, notepads, greeting cards, and design and production of related web pages, social media sites and epub tablet publishing. Basic press functions and controls will be explored through the use of printing presses and press simulators. Basic bindery operations such as cutting and trimming are introduced. Students will use industry standard tools and techniques to learn the importance of job planning, basic production workflows, correction loops and will develop an appreciation of the requirements of each process.

39 Hours

Fee: \$671.09

NEW**★ Graphic Communications Processes 2 CGCM 121***Prerequisite(s): CGCM 120*

This lab-based course builds on the experiences of GCM 120 to provide students with an experiential overview of the complete graphic communications process. Projects will explore concept and design, image capture, premedia, printing, binding and finishing and output to tablet and online formats. Projects include one and two-colour offset, flexographic and digital printing jobs, including wide-format, of student-designed work, and design and production of related web pages and epub tablet publishing. Printing presses and simulators are employed with a focus on troubleshooting. Students will develop a more detailed understanding of production workflows, with focus on attention to detail and process documentation. Additional bindery operations, including drilling and padding are introduced.

39 Hours

Fee: \$671.09

NEW**★ Design and Layout CGCM 130**

Successful design involves more than meets the eye! Students learn how to interpret a design brief, how to work with a client to create a design that fulfills client specifications, and how to prepare a design that will adhere to output requirements. An emphasis is placed on solving problems in design, and the principles of design, including accessibility. The course introduces students to the principles of design, as practiced by graphic designers, advertising and marketing organizations and members of the printing industries. Students learn how to communicate with designers, and the steps necessary to execute a successful design project from design briefs to fulfillment of client expectations.

39 Hours

Fee: \$671.09

NEW**★ Consumer Packaging CGCM 210**

This course covers the fundamentals of consumer product packaging, including package printing and manufacturing. Students develop an understanding of the many aspects that are needed to create successful packaging. Topics include functions of packaging, materials and printing processes used, end use and quality considerations, sustainability, as well as package manufacturing, optimization, logistics and the role of converters. Legal and accessibility issues related to packaging are discussed.

39 Hours

Fee: \$671.09

NEW**★ Typography CGCM 230***Prerequisite(s): CGCM 130*

The course explores the relationships between type designers, type foundries and end users. This course concentrates on typographic history and classification, as well as the creation, marketing and use of typefaces in professional applications for both printed and non-printed output. Students also learn how typographic choices made by the designer can enhance or reduce the appeal and accessibility of a document. Editing and proofreading of documents is also emphasized.

39 Hours

Fee: \$671.09

NEW**★ Magazine Production and Publishing CGCM 720**

The number of magazines published these days is greater than ever, but print run lengths are changing with the availability of a range of non-print digital media. This course covers design and current technical specifications and requirements for magazine production and distribution. Students will learn about organizations structures, such as grids, formatting and sequential design. Image capture and manipulation are covered. Students will create and produce a short-run magazine.

39 Hours

Fee: \$671.09

NEW**★ Accessibility for Graphic Communications CGCM 740**

This course introduces students to issues of accessibility affecting graphic communication pieces. Accessibility is increasingly important in the design, production and distribution of print and non-printed graphic media. By improving accessibility, overall design and readability are often enhanced. Students will learn about legal and ethical responsibilities around legibility, and will analyze pieces of work for accessibility. Students will produce printed and non-printed pieces using current tools and guidelines for accessible documents.

39 Hours

Fee: \$671.09

★ Estimating in the Graphic Arts CGRA 116*Prerequisite(s): GRA 420 and GRA 422 and CGRA 423 and GRA 424 and CACC 100*

Introduction to price list and cost estimating using manual and computerized methods. This course relies heavily on fundamental knowledge learned from courses in premedia, imposition planning, printing, and bindery and finishing. A hands-on approach is used for applying budgeted hourly rates (BHR), standards, materials costs, formulas, markups in producing accurate estimates. Emphasis is placed on the use of accurate specifications, the best imposition and production plan, with consideration to quality, turnaround time and cost efficient use of labour, equipment, manufacturing processes, paper and other materials. Manual, spreadsheet and database (MIS) estimating procedures will be taught.

39 Hours

Fee: \$617.06

★ Selling in the Graphic Arts CGRA 230

This course explores the role of the sales representative in the graphic arts industries; including customer relationships, formulating a selective selling strategy, the nature and sources of product, customer and competitive knowledge, and using the consultative selling process. It extends the focus of the sales practice into self-presentation and selling oneself to further student skills in professional communication and presentation.

26 Hours

Fee: \$430.72

★ Binding and Finishing I

CGRA 320

This study of basic binding and finishing technology places emphasis on the technical and managerial aspects of binding and finishing topics. These include: the history of bookbinding, an overview of binding equipment, bindery service workflows, the structural design of books, quality control, job planning, and productivity issues. Students will also learn the set-up procedures of the primary types of binding equipment by way of lab demonstrations and hands-on assignments, including, guillotine cutting, folding, hand bookbinding, and use of small and table top machines, drilling, padding, embossing and foil stamping, round cornering, film laminating, and shrink wrapping operations.

39 Hours

Fee: \$592.66

HEALTH SERVICES MANAGEMENT

Health Services Management is a unique part-time program, the first of its kind in Canada. It is designed to meet the needs of present and aspiring managers in health service organizations. In keeping with Ryerson's tradition of professionally relevant education, the program has been designed in close consultation with leading practitioners, employers, and professional associations. It provides education in management theory and practice which builds on previous professional education and experience. Individual courses in the Health Services Management part-time degree completion program are available to all Chang School students who wish to upgrade their knowledge and skills in the health services management area. Courses examine the Canadian health system and the manager's role in the health services organization.

Health Information Management

Related certificate(s): Health Informatics, Health Studies, Nursing Leadership and Management, Advanced

★ Managing Health Information Services

CHIM 300

Prerequisite(s): CHSM 301 or CHSM 315

This course will explore the manager's role as it relates to planning, organizing, HRM, budgeting, supervising, evaluation, service delivery, and marketing. Further exploration will center around areas such as organizational development and culture; evolution of organizations; response to change; individual motivation; group dynamics; leadership styles; inter-departmental relations, decision-making; communication; team building; conflict resolution; managing change.

39 Hours

Fee: \$606.45

★ Healthcare Information Analysis

CHIM 301

Prerequisite(s): CHSM 301

Emphasis will be placed on analysis methodologies and the concomitant use of current data analysis software, such as query and reporting tools, on-line analytical processing (OLAP), executive information systems and data mining tools. The key concept will be methods of transforming data into meaningful information for end-users. Analysis techniques include: trending through the use of historical data, impact analysis, variance analysis, and data modeling to allow for scenario testing. The identification of data sources such as Management Information Systems (MIS), the Canadian Institute for Health Information (CIHI), as well as other financial, clinical and demographic data repositories, will also be covered.

39 Hours

Fee: \$606.45

☆ **Health Information Systems Management**

CHIM 302

Prerequisite(s): CHIM 301

This course takes a systems perspective in terms of database management, quality management and utilization management. Database management covers the full spectrum of definitions, data standards in terms of integrity, reliability and consistency, data transforming and cleaning prior to storage, and record linkage. Quality assurance and utilization management topics cover issues such as integrated/managed care with a focus on both process and outcome within an interactive cycle, identification of sentinel events and the development of indicators for measurement. Finally, product analysis and selection, including the RFP (request for proposal) process, will also be addressed.

39 Hours

Fee: \$606.45

NEW

☆ **Introduction to Health Informatics**

CHIM 305

This course introduces how information technology is applied in healthcare services. Several concepts, including electronic health records (EHR), eHealth, “infostructure” and their applications in the practice of evidence-based management are explored. A specific focus is on implementing EHR in Canada and other jurisdictions. Ethical issues and health information management are studied. Students also learn how simple software applications are used in healthcare domains.

39 Hours

Fee: \$606.45

NEW

☆ **Healthcare Interoperability**

CHIM 306

Prerequisite(s): CHIM 305

This course provides a foundation on healthcare data, information and knowledge sharing. A specific focus is the importance of interoperability between diverse and distributed systems. New care processes are analyzed and presented through case studies. Various electronic data interchange standards and healthcare coding terminologies are introduced. Students work with standards like SNOMED CT, HL7, and create care information contents in a simulated environment.

39 Hours

Fee: \$606.45

NEW

☆ **Human-Computer Interfaces in Healthcare**

CHIM 307

Prerequisite(s): CHIM 305

This course introduces fundamental concepts of Human-Computer Interface (HCI) design, usability issues, and integration within the healthcare delivery processes. Fundamentals of human interaction with computers including mental models, multimedia user interface, network-based interactions and visual design principles are introduced. HCI in computerized physician order-entry systems, speech interfaces, computer-based tutoring systems for training health professionals, patient monitoring systems, information-retrieval systems and clinical decision-support systems are analyzed.

39 Hours

Fee: \$606.45

☆ **Health Economics**

CHIM 404

Prerequisite(s): CECN 104 and CECN 204

This course will take students beyond using the fundamental tools necessary to apply basic economic principles to the health care field. Exposure will be provided on a balance of population-based health economics and consumer driven, managed health care economics. Consideration will be given to linking performance indicators to social goals. Emphasis will be placed on quality of life measures both from the local and international scenes.

39 Hours

Fee: \$593.72

☆ **Issues in Health Information Management**

CHIM 405

Prerequisite(s): CHIM 404

This course is designed to facilitate in-depth analysis of key trends and issues in health information management and to explore their implications for management practice. The course will examine current health information management delivery systems, their legislative, political, economic and social complexities, and their ability to influence and be influenced by health care professionals. Issues addressed will vary in response to developments in the field. Students will be asked to critically analyze these trends and issues in terms of their impact on the management of health information as a whole, the provider-client relationship, etc.

39 Hours

Fee: \$593.72

☆ **Practicum Seminar**

CHIM 406

Prerequisite(s): Department consent

This course is offered in conjunction with HIM 407. Students and faculty supervisors establish learning contracts detailing the terms and conditions of fieldwork placements. Mid and final seminars provide an opportunity for students to apply theory and collectively share their experiences. This is a graded course.

39 Hours

Fee: \$593.72

☆ **Practicum**

CHIM 407

Prerequisite(s): Department consent

Practicum project/exercise to be directly related to health information management. The practicum is the capstone course of the Health Information Management program, and provides the opportunity to apply management theory and concepts in a working environment which is specific to health information services delivery. Students evaluate and analyze onsite management issues within the context of their understanding of organizational systems. A pre-arranged number of hours, per week, will be spent over a negotiated time period in a setting other than their own work setting, although it may be in the same organization. Supervision will be provided by on-site preceptors.

39 Hours

Fee: \$593.72

NEW

☆ **Statistics for Health Services Managers**

CHIM 408

This course introduces principles of statistics for use in health services. Topics include study design, sampling, description, summary, and hypothesis testing. Students apply methods such as ANOVA, correlation, chi-square and multiple regression using statistics software. The applied approach develops knowledge and skills necessary to understand health services research and practice evidence-based management.

39 Hours

Fee: \$593.72

Health Services Management

Related certificate(s): Gerontology, Health Informatics, Health Services Management, Health Studies, Nursing Leadership and Management, Advanced, Project Management

★ The Healthcare Systems

CHSM 301

The course introduces participants to the organization and operation of the health systems of Canada. The initial section focuses on the client as the consumer of health services. Discussion is focused on the historical concepts of the provider-client relationships; integrated client-centered care. Also examined are major institutional and community components and the interrelationships; role of governments and the health professions in shaping the current system; funding; planning for healthcare; the impact of access to services with the shift from the institutionally-based illness model with curative technology to a wellness model stressing client rights, community development and health promotion in a climate of the learning organization with quality improvement initiatives.

39 Hours

Fee: \$606.45

★ The Management Cycle

CHSM 305

Prerequisite(s): CHSM 301 or CHSM 315

The evolving role for the health services manager in the management cycle is the focus of this course. The course uses a case study approach to identify and discuss the manager's role and responsibilities in key operational areas within the health services organization: planning, organizing, human resources management, budgeting, supervising, evaluating and marketing. Challenges for managers in each of these areas are examined to assist in the development of skills and models for effective management. Methodology: Lecture, case studies, discussion, guest experts.

39 Hours

Fee: \$606.45

★ Management Leadership and Decision-Making

CHSM 306

Prerequisite(s): CHSM 305 and (CHSM 301 or CHSM 315)

In this course students examine theories of organizational development and culture, review how organizations evolve and respond to change. Students will apply theories of individual motivation, group dynamics and styles of leadership within the context of the departmental structure and inter-departmental relations. Case studies and role-playing are used to develop skills in decision-making, communication, team building, conflict resolution and managing change in multi-disciplinary, multi-cultural work settings. Methodology: Lecture, discussion, case studies, role playing.

39 Hours

Fee: \$606.45

★ Principles of Long Term Care Service Del.

CHSM 307

Successful completion of this course will enable the student to understand and critically analyze the current system and the impact of expected changes on the delivery of service in the long-term care sector. The course will deal with the policies, values, concepts, and complexities of the health care system in the municipal, provincial, national and international contexts. It will also provide an understanding of the political processes and legislation that have shaped and will continue to shape the delivery of long-term care. Discussion will include the administrative issues and trends in the provision of services to culturally diverse clients of all ages and conditions in both community and institutional environments.

39 Hours

Fee: \$603.27

★ Project Management - Long Term Care

CHSM 308

Prerequisite(s): CHSM 301 and CHSM 307

The course provides the student with concepts and basic functions of project management. It will provide participants with the knowledge and skill to apply a project management approach to leadership in the long-term care sector. The course activities will consist of an examination of the key elements of effective project management including scope, time, cost, human resources, quality, risk, communications and change. Opportunities will be made available for skill development and knowledge application during the life of the course.

39 Hours

Fee: \$603.27

★ Trends in Long Term Care Service Delivery

CHSM 309

Prerequisite(s): CHSM 301 and CHSM 307

This course is designed to facilitate in-depth analysis of key trends and issues in long term care service delivery and to explore their implications for management practice. Students will examine current long term care delivery systems, their legislative, political, economic, and social complexities, and their ability to influence and be influenced by health care professionals. Issues addressed will vary in response to developments in the field. Students will be asked to critically analyze these trends and issues in terms of their impact on the long term care system as a whole, the provider-client relationship, etc.

39 Hours

Fee: \$603.27

★ Institutional Structure

CHSM 310

This course is designed to explore the administrative, functional and management structures of modern Canadian healthcare institutions. Student learning will focus on understanding the corporate organizational structure, and the functions and relationships of major clinical and non-clinical departments. Healthcare organizations themselves are also analyzed with respect to the unique social role which they play and the contribution they make to the society in which they function.

39 Hours

Fee: \$603.27

★ Managerial Epidemiology for Healthcare

CHSM 330

Prerequisite(s): CHIM 408 and CHSM 301

It is important for managers to understand the populations they serve. This course will illustrate how the manager can use epidemiological concepts and tools to improve management decisions - from setting rates to predicting staffing needs to marketing the services of the organization. Managers need to know the methods and ideas of epidemiology. The information will be presented in a manner that meets the needs of the healthcare manager. Some of the topics covered will be study designs and descriptive epidemiology; quantitative measures and terminology.

39 Hours

Fee: \$606.45

★ Financial Management

CHSM 407

Prerequisite(s): CACC 100 and CHIM 301

This course assumes a basic knowledge of accounting principles. It focuses on the unique financial management features, reporting policies and analytic tools in health services organizations. It examines different types of budgets including capital and operating budgets, and fixed and variable budgets. It describes budgetary processes and tools and discusses capital expenditure plans and cash flow forecasts. Financial measurement, reporting and evaluation strategies are discussed and students learn how to use a spreadsheet, and how to compute and compare budgets and to calculate variances.

39 Hours

Fee: \$593.72

★ Program Planning and Evaluation**CHSM 408***Prerequisite(s): CHSM 417*

This course develops conceptual and applied understandings of what a program is, how it is developed, and how its performance can be monitored and assessed. It describes the purposes, application and importance of planning and evaluation techniques in the health field and develops strategies for initiating and managing planning and evaluation activities. Fundamental elements of program planning and evaluation are detailed including the specification of program goals, objectives and operational indicators, and the matching of planning and evaluation questions to operational decision-making.

39 Hours

Fee: \$593.72

★ Human Resources Management in Healthcare**CHSM 437***Prerequisite(s): HSM 326 or CLAW 326*

This course will increase the understanding of the processes involved in merging human talents, needs and aspirations with the requirements of the client-centred health services organization. It builds on the theory and practice of leadership and communication skills, to develop skills and knowledge in human resources planning, recruitment, selection and evaluation. Topics include job analysis, performance appraisal, compensation, quality of working life, continuing professional education, collective bargaining, employee rights, career planning, etc. A case study approach will be used. Methodology: Lecture, discussion, case studies.

39 Hours

Fee: \$593.72

★ Research Methodology**CHSM 417***Prerequisite(s): HSM 326 and CHIM 301*

This course builds basic skills in statistics and research methodology in the health field. To ensure the quality, appropriateness and cost-effectiveness of the services they provide, managers must make decisions based on the best available evidence. Even if they do not themselves engage in research activities, they should understand the research process, the assumptions which underlie different research strategies, and be able to critically assess research findings as the basis for decision-making. The course discusses the assumptions of clinical and social research models and the nature and use of health care statistical data.

39 Hours

Fee: \$593.72

☆ Practicum Seminar**CHSM 418***Prerequisite(s): Department consent*

Offered in conjunction with HSM 419. The first pre-fieldwork seminar orients students to the process of experimental learning. Students and faculty supervisors establish learning contracts detailing the terms and conditions of fieldwork placements. Mid and final seminars provide an opportunity for students to apply theory and collectively share their experiences. Learning outcomes include an applied understanding of the management cycle, the challenges for managers and enhanced research and evaluation skills. This is a graded course.

39 Hours

Fee: \$593.72

☆ Practicum**CHSM 419***Prerequisite(s): Department consent*

The practicum is the “capstone” course of the program, and provides the opportunity to apply management theory and concepts in a working environment. Students evaluate and analyse on-site management issues within the context of their understanding of organizational systems. A pre-arranged number of hours, per week, will be spent over a negotiated time period in a setting other than their own work setting, although it may be in the same organization. Supervision will be provided by on-site preceptors. This course is graded on a pass/fail basis.

39 Hours

Fee: \$593.72

HINDI

Are you interested in learning a phonetic language? Do you want to learn about Indian culture? Are you travelling to India, Pakistan, or Nepal? Do you have Indian friends, relatives, or business contacts? If you want to learn Hindi for any of these purposes, our non-credit courses are for you. Students who have no or very little knowledge of Hindi may enroll directly into COHI 101.

❖ Introductory Hindi

COHI 101

This is a non-credit course which focuses on how to make your own Hindi sentences to express your thoughts in present, past, and future tenses. Emphasis is on understanding how to communicate original thought at the sentence level. The course begins with recognition of the Hindi alphabet in roman letters, leading to pronunciation of Hindi words and sentences. You come away understanding and speaking Hindi in simple, straightforward, everyday situations.

Note: Text and CD: Ratnaker Narale, Learn Hindi Through English Medium.

16 Hours

HST included

Fee: \$344.01

❖ Advanced Introductory Hindi

COHI 201

This is a non-credit course which focuses on how to make your own Hindi sentences to express your preferences and opinions in present, past, and future tenses. Emphasis is on understanding how to communicate original thought at the multi-sentence level. The course augments recognition of the Hindi alphabet in roman letters, leading to correct pronunciation of Hindi words and sentences. You will gain confidence in understanding and speaking Hindi in straightforward, everyday situations and communications.

16 Hours

HST included

Fee: \$361.22

❖ Intermediate Hindi

COHI 301

This is a non-credit course which focuses on how to utilize what you learned in COHI 101 and COHI 201, and on how to continue making your own Hindi sentences to express your original thoughts and opinions in present, past, future, and conditional tenses. The course mainly focuses on writing letters and emails in Hindi to your friends and relatives; using synonyms, antonyms, idioms, phrases, proverbs in spoken Hindi; and participating in scenarios in order to learn how to engage in everyday conversations. Students are encouraged to read and write Hindi sentences; however, in general, the focus of this course is to understand and speak the Hindi language.

16 Hours

HST included

Fee: \$361.22

HISTORY

The Department of History offers a wide selection of courses, ranging from general surveys in European, African, Canadian, and American history to courses that examine themes in subjects such as modern international relations and the history of science and technology. Students enrolled in degree programs are responsible for ensuring that any course selected from those listed meets the specific requirements of their program.

History

Related certificate(s): Caribbean Studies, Ethics, Social Sciences and Humanities Foundations

★ Ten Days That Shook The World

CHIS 104

This course explores transformative moments in history in order to understand their underlying causes and their social, cultural, political, and economic impacts on human beings and their societies. Each topic introduces students to the diverse ways historians practise their craft and seek understanding of the past and historical change so that they develop a deeper appreciation of what history “is” and “does” by considering multiple means of exploring and making sense of the past. (Formerly HST 114).

39 Hours

Fee: \$643.58

★ Inventing Popular Culture

CHIS 105

This course examines the history of popular culture, starting in the 19th century, seeking to define popular culture and understand its relationship to the formation of modern society. It considers such topics as the ideological use of popular culture, debates surrounding culture, notions of nation and community, and the growing dominance of commercial culture during a period when technology, human migration, and other factors increasingly blurred the boundaries of earlier cultural and social understanding. (Formerly HST 115).

39 Hours

Fee: \$643.58

★ Technology, Warfare and Social Change

CHIS 106

This course introduces students to the technological and social implications of warfare from the ancient to the modern age. However, rather than dwell on the minutiae of military technologies and battle strategies, it explores the technological connections between war and society through asking such questions as how conflict fostered technology exchanges and medical advances; how improved naval technology furthered exploration; how military technologies found civilian use; and how new technologies changed the ethics of war. (Formerly HST 116).

39 Hours

Fee: \$643.58

★ Colonization, Colonialism and Independence

CHIS 107

This course provides an introduction to European colonialism in Asia and Africa. We will examine the motives behind territorial acquisition, the methods employed to establish colonial control, and the responses to colonialism among subject populations, including forms of resistance and movements for independence. We will also analyze the impacts of colonialism on the societies of both the colonizers and the colonized. Some key terms in this course are: race, culture, economy, resistance, and violence.

39 Hours

Fee: \$643.58

- ☆ **Modern International Relations** **CHIS 590**
Antirequisite(s): HIS 490 and CHST 604
 To understand the complexities of the modern world, we must have a firm grasp of international relations. What forces - political, social, or economic - have changed our world since 1945? What was the Cold War and what does its ending mean? This course uses history to illuminate relations and developments in specific areas, such as Europe, the Middle East, and Asia. It also trains students in how to formulate questions and find information effectively. (Formerly HST 500).
 39 Hours Fee: \$643.58
- ☆ **World Turned Upside Down: Europe 1350-1789** **CHST 111**
Antirequisite(s): HIS 279 and HIS 377
 Early modern Europe was torn by contradiction and conflict. Rediscovery of the ancients and reinterpretation of the Bible produced a new culture but split Christianity. The nation state, the Atlantic economy, modern capitalism and new empires developed amid revolt and resistance. Growing literacy and modified gender relations reshaped society. Witches were still burned while scientists transformed knowledge; an age of reason emerged while war grew more terrible. Out of all this came Europe's world domination. (LL)
 39 Hours Fee: \$595.84
- ☆ **Rise of Empires: History Through Film** **CHST 119**
 Can film provide valid insight into our past? How do we understand film as historical artifact? This course tries to answer these questions and many others by exploring films which deal with early European imperialism, that is, from the time of Columbus to the end of the First World War. The topics will be international in scope, drawing on aspects of Asian, African, and Latin American history, and examining both "blockbuster" and independent films. (LL)
 39 Hours Fee: \$620.24
- ☆ **Century of Revolution: Europe 1789-1914** **CHST 211**
Antirequisite(s): HIS 279 and HIS 379
 The French Revolution launched the modern age, in politics, society, the family, the arts, and war. The 19th century brought fresh revolutions: technology and industrialization transformed work and leisure, life and death; liberalism and revolutionary socialism challenged the old order; and science altered forever humanity's place in the universe. Yet this was also a century of ruthless imperialism and aggressive and intolerant nationalism. This period is essential for understanding our world. (LL)
 39 Hours Fee: \$595.84
- ☆ **Decolonization: History Through Film** **CHST 219**
 Can film provide valid insight into our past? How do we understand film as historical artifact? Films in this course will examine aspects of colonial rule in Asia and Africa from the end of the First World War to the late 20th century. There will be an emphasis on the struggle for liberation from the grip of colonial empires and the neo-imperialism practiced by the superpowers during the Cold War. (LL)
 39 Hours Fee: \$620.24
- ★ **The History of The Caribbean** **CHST 222**
 This course examines the development of societies in the Caribbean from the intrusion of European explorers and settlers c.1492 to the dismantling of the slave systems in the 19th century, and beyond to issues, such as independence, affecting the region in modern times. (LL)
 39 Hours Fee: \$526.88
- ☆ **History of Science and Technology I** **CHST 325**
Antirequisite(s): HIS 216 and HIS 417
 This course explores the major scientific and technical advances in Western civilization from the Ancient World to 1700 CE. It treats the sciences and technology as being historically significant in themselves, and also as a part of the larger social and cultural framework. Major topics include: Greek natural philosophy, Graeco-Roman technology, mediaeval technology and social change, the Renaissance and technology, and the scientific revolution of the 1600s. Emphasis is placed on the transformation of physics and astronomy associated with Copernicus, Galileo, Kepler, Descartes, and Newton. (LL)
 39 Hours Fee: \$585.23
- ☆ **Major Themes in International Relations** **CHST 426**
Antirequisite(s): HIS 390 and HIS 490
 This course examines key aspects of international relations from the creation of the Westphalian system (1648) to the present. Topics include the methods and structures established to mediate relations between states, the bureaucratization of diplomacy, the rise of international institutions and law, the emerging notion of human rights, and the challenges to the Westphalian system engendered by globalization, international terrorism, and the rise of intrastate conflicts. (LL)
 39 Hours Fee: \$637.22
- ☆ **The American Civil War** **CHST 501**
 This course surveys the history of the Civil War, from its origins in 19th-century tensions through to the end of Reconstruction in 1877. Topics include: slavery, the growth of sectionalism, birth of the Republican Party, breakdown of the political system, justifications for and against secession, the founding of the Confederacy, the military conflict, life on the home front, Union victory, sectional reconciliation, and postwar conditions for freed Blacks. (UL)
 39 Hours Fee: \$576.75
- ☆ **Crime and Punishment in Modern Canada** **CHST 503**
 This course is a historical inquiry into crime and punishment in 20th-century Canada. The major focus of the course is an examination of the social history of crime, which includes historical attitudes toward crime, definitions of what actions constitute criminal behaviour and how they change over time, and finally, the evolution of the relationship between the criminal justice system and social change. (UL)
 39 Hours Fee: \$576.75
- ☆ **War to War: World Conflict 1900-45** **CHST 504**
 The two world wars between 1914 and 1945 have transformed our planet. In 1900 Europe dominated international relations; since then we have seen the rise of the superpowers of the United States and the Soviet Union, and a shift in power to the non-European world of Asia, Africa, and Latin America. This course examines the causes and significance of these changes. Topics include political, economic, and military factors, war-making, and peace-keeping. (UL)
 39 Hours Fee: \$576.75

☆ Quebec in Canada: A History**CHST 511**

The relationship between Quebec and the rest of the country is a complex one, involving conquest, submission, survival, compromise, cooperation and confrontation. This course explores the twists and turns of the historical relationship in order to provide a deeper appreciation of the place of Quebec in Canada and of the nature of modern Quebec society. (UL)

39 Hours

Fee: \$570.38

☆ Toronto: Wilderness to Metropolis**CHST 527**

In less than 200 years Toronto has grown from a small town into a major metropolis. This course looks at elements in that development, such as: immigration and its effects, 19th-century social classes and ethnic rivalries, the growth and movement of industry, pollution problems, the struggle over municipal services, urban calamities, the absorption of other communities, problems of the poor, the growth of suburbs, and the emergence of a multicultural city. (UL)

39 Hours

Fee: \$613.88

☆ Africa Before 1850**CHST 533**

This course deals with African history before European colonization. The approach is thematic and the course focus will shift with developments in the field. Some themes that might be included are: the use of oral tradition, the development of ancient civilizations and states in Africa, the spread of Islam, the Atlantic Slave Trade, trade networks, and the shift to “legitimate commerce.” This course is best taken with HST 633. (UL)

39 Hours

Fee: \$570.38

☆ Espionage: A Modern History**CHST 540**

Hidden codes, special devices, fiendish villains, and top secrets all have a special place in popular culture, but as alluring as the mythology may be, it does not answer important questions about the roles that espionage and intelligence agencies play in international relations. This course covers the evolution of spying and spy services from the late 19th century to the present, focusing on the effects of major issues such as the two world wars, the Cold War, 9-11, and international security threats today. (UL)

39 Hours

Fee: \$576.75

☆ Natives and Newcomers to 1763**CHST 580**

How did the First Nations of the Canadian and American Great Lakes region develop through the millennia? What happened at their first encounters with Europeans? How did they face the challenges posed by missionaries and traders? What happened during the tragic epidemics of the 1600s? How did war and conflict re-shape the aboriginal world? Explore these and other important questions in indigenous history in this course. (UL)

39 Hours

Fee: \$576.75

☆ Mediaeval Europe: 400-1400**CHST 584***Antirequisite(s): HIS 277*

This course traces the main developments in Europe from the fall of Rome to 1400. Within a broadly chronological context, we examine the political, religious, and social changes that occurred during that time. Topics include: the barbarian kingdoms, early Western Christianity, the Byzantine Empire, the rise of Islam, Charlemagne, the Moors and the Vikings, the development of the new kingship, the Crusades, and life, art, learning, and culture in the High Middle Ages. (UL)

39 Hours

Fee: \$613.88

★ The History of Modern Propaganda**CHST 602**

This course examines the role of propaganda, starting with its use by religious reformers in the 16th century; French revolutionaries of the 18th, and nationalists in the 19th. The main focus, however, is the period after 1900. We explore propaganda during the two world wars, its use by totalitarian powers, and its impact on the Cold War. We place emphasis on studying the raw materials of propaganda: pamphlets, posters, radio broadcasts, and films. (UL)

39 Hours

Fee: \$576.75

☆ The Third Reich**CHST 603**

This course introduces students to the history of Germany's Third Reich and its international impact from its origins in the 1920s to the aftermath of its defeat in 1945. Topics include the birth of Nazism in Weimar Germany; Adolph Hitler's rise to power; Nazi government, economy, and society; the Holocaust; territorial expansion; the conduct of the Second World War; the collapse of the Third Reich; and ongoing deliberations about its legacies. (UL)

39 Hours

Fee: \$576.75

☆ The Uneasy Peace: The Cold War, 1945-90**CHST 604***Antirequisite(s): HIS 490 and CHIS 590 and CHST 500*

This course explores the story of the Cold War, a conflict that dominated international relations for much of the postwar period. Topics include the emergence of the United States and Soviet Union as superpowers, the division of Europe after 1945, the creation of Cold War alliances, decolonization, superpower conflict by proxy, the rise of regional powers, the collapse of the Soviet Union, and the legacy of the conflict for the 21st century. (UL)

39 Hours

Fee: \$576.75

☆ Modern Africa**CHST 633***Antirequisite(s): HIS 556 and HIS 656*

What historical dynamics have produced the Africa we know today? How far are today's problems rooted in the colonial experience? This course examines the history of the continent from the beginning of the colonial period to the present. Some of the themes covered include: resistance to colonial rule, the development of nationalism, class formation, changing gender roles, Africa in the world economy, and democratization movements. This course is best taken with HST 533. (UL)

39 Hours

Fee: \$570.38

NEW**☆ Sex in the American City CHST 658**

This course addresses how North American cities fostered both commercial and non-commercial sexual cultures, sexual communities, and sex districts from the 19th to the early 21st century. Students will examine the histories of male and female prostitution, the development of non-heterosexual urban communities, cultures of urban romance, cinematic representations of sex and cities, suburban sex cultures, and the histories of gender, race, and class that structure these issues of sex in the city. (UL)

39 Hours

Fee: \$576.75

☆ Natives and Newcomers from 1763 CHST 680

How did the First Nations of the Great Lakes defend their interests when settlers flooded the region after 1763? What happened to them in the American Revolution and other frontier conflicts? What were the results for natives when Euroamericans forced them onto reservations or demanded they assimilate? What were the impacts of modernization after 1850? Explore these and other critical issues in native-newcomer relations in this course. (UL)

39 Hours

Fee: \$576.75

☆ Scientific Technology and Modern Society CHST 701

Our lives are shaped by scientific knowledge applied to new inventions. This course examines how scientific technology both reflects and transforms our society, and how it created key fundamental industries in our high-tech, energy-dependent society. It covers the invention of modern electrical and transportation systems, modern warfare, problems of biotechnology, the ethics of industrial chemistry, nuclear energy and the atomic bomb, and the computer revolution. (UL)

39 Hours

Fee: \$576.75

☆ The First World War CHST 702

This course examines the causes, conduct, and outcomes of the world's first total war. Key themes include pivotal military events, soldiers' experiences, and, especially, the interactions between the home front and the front lines that distinguished the Great War from earlier conflicts and that shaped its outcome and long-term consequences. Accordingly, the connections between the political, military, social, economic, and cultural dimensions of the war are central topics of study in this course. (UL)

39 Hours

Fee: \$576.75

☆ Canada and the United States CHST 711

This course explores a pivotal relationship in Canada's development by looking beyond formal ties, such as treaties, to political, economic, and cultural forces with the United States. It starts in the 18th century, but the major focus is on the 20th century, when the two countries were never closer. Topics include the Cold War, economic links, tensions, culture and nationhood, and Free Trade. (UL)

39 Hours

Fee: \$576.75

☆ The American City CHST 712

This course is a cultural and social history of the American city, focusing on late-19th and 20th-century New York and Los Angeles. We examine how issues such as how immigration/migration, race, gender, sexuality, public space, architecture, urban planning, and consumerism have shaped the lives and cultures of cities and city residents. (UL)

39 Hours

Fee: \$576.75

☆ Medicine from Antiquity to 1500 CE CHST 777

The dread of disease, physical pain, and mental suffering always has loomed large in human experience. How did people in the past react to sickness? What kinds of diseases affected people's lives, and what approaches did they take to hold diseases at bay? This course covers disease and medical practice from antiquity to 1500 CE within the contexts of the ancient Near East, Greek and Roman society, the Islamic world, and mediaeval Europe. (UL)

39 Hours

Fee: \$613.88

☆ Astronomy vs Astrology CHST 787

Today the difference between astronomy and astrology is defined with clarity, with the former recognized as an established scientific discipline and the latter regarded as a pseudoscience, rejected for its lack of credibility. Such was not always the case, as astrology gave birth to astronomy. This course explores the complex interrelationship between the two from the third millennium BCE to 1700 CE. (UL)

39 Hours

Fee: \$613.88

☆ The Second World War CHST 802

This war rightly has been called a total war. New technologies and strategies affected civilians as much as the military, and the fighting raged across the globe. We examine the war in Europe, Asia, and beyond, exploring such questions as the role of aerial bombing, of science, of intelligence, and of propaganda in the conflagration while considering the war's impact on daily life in occupied countries, and the distinct experience of the dictatorships and democracies. (UL)

39 Hours

Fee: \$576.75

☆ The Canadian Revolution: Canada 1968-2000 CHST 807

Canada has undergone such profound social, cultural, constitutional, and political changes since 1968 that it can be argued that the country has experienced a "revolution." The goal of this course is to examine the nature of this "revolution" and to give students a broad introduction to the major events and themes in contemporary Canadian history, including such topics as constitutional reform, multiculturalism, Quebec, free trade, cultural organizations, foreign policy, globalization, feminism, and Aboriginal rights. (UL)

39 Hours

Fee: \$613.88

HOSPITALITY/TOURISM

If you are already active in the hospitality and tourism industry, the courses listed offer an ideal opportunity to upgrade your skills. If you are planning to pursue a career in hotel, resort, or restaurant management, they provide an excellent base for your professional development.

Hospitality and Tourism

Related certificate(s): Business Decision Analysis, Sustainability Management and Enterprise Process Excellence

★ Service and Professionalism

CHTH 102

Antirequisite(s): CRMG 303

This course will introduce the students to quality service. General systems theory is used to investigate the concept of service excellence as a philosophical framework of developing a service management strategy to insure service quality. Current issues include regarding quality service and the organizational and managerial implications.

39 Hours

Fee: \$757.10

★ Destination Management Systems

CHTI 746

Prerequisite(s): CITM 102 or Direct Entry

Hospitality and Tourism destinations promote themselves by developing dynamic inviting websites. Destination management strategies must embrace ICT (Information Communication Technologies). By critically examining different Destination Management Systems, students will learn what makes a successful site now that the Internet is a major distribution tool. Students will be guided to use the Internet to compare different Destination websites and they will learn how Search Engine Optimization can increase the traffic to their website.

39 Hours

Fee: \$593.72

★ Sustainable Tourism Development

CHTT 510

Prerequisite(s): CHTT 303

This course critically examines sustainable and responsible tourism development practices at both the micro and macro levels of the industry. Case study analysis and experiential learning is an integral component of the course. A major focus will be on benefits and impacts associated with tourism development, as well as the strategies and innovations for maximizing benefits and minimizing adverse effects.

39 Hours

Fee: \$644.64

HUMAN RESOURCES

These courses give you the opportunity to develop your knowledge and skills in human resources management. With their intensive focus on contemporary issues and management techniques, they can help you upgrade your professional qualifications or prepare you to pursue accreditation in this challenging and rewarding field.

Human Resources

All CMHR course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Accessibility Practices: AODA and Beyond, Business Management, Design Management, Ethics, Facility Management, Health Informatics, Human Resources Management, Leadership in Organizations, Nursing Leadership and Management, Advanced, Occupational Health and Safety, Project Management, Project Management for Technical Professionals, Retail Management

★ Organizational Behaviour and Interpersonal Skills **CMHR 405**

This course introduces students to theories of organizational behaviour. Experiential learning and in-class practice is used to develop understanding of organizations, enhance interpersonal skills, and improve effectiveness in teams. Topics include motivation, communication, team dynamics, conflict, perception, attitudes, personality, power, influence and leadership.

39 Hours

Fee: \$655.67

★ Organizational Behaviour II **CMHR 505**

Prerequisite(s): CMHR 405 or CHTH 601

This course completes the introduction to organizational behaviour started in MHR 405 and emphasizes applied activities to enhance students' skills in applying organizational behaviour theory to the practice of management. Topics include: organizational culture, creativity, stress, negotiations, cross-cultural behaviour, job design and organizational structure and design.

39 Hours

Fee: \$588.83

★ Industrial Relations **CMHR 522**

This course examines theories of industrial relations, union organization and structure, labour legislation in Canada, negotiating and administering the collective agreement among other topics. The aim is to introduce the student to the complexities of the labour management relationship and to explore various techniques for successfully managing this critical area of business. (Formerly MGT 522.)

39 Hours

Fee: \$588.83

★ Human Resources Management **CMHR 523**

This course exposes students to the dynamic and diverse field of Human Resources Management and provides a foundation in theory and practice for areas such as human resources planning, recruitment, and selection of staff, training and development, and compensation. Current events, human resources strategy, relevant legislation, and future trends are also explored. The course provides students with the fundamentals necessary to effectively administer the human resources function of an organization, and also develops their abilities to perform effectively in teams. (Formerly MGT 523 and MHR 728.)

Saturday sessions are classroom-based and are a mandatory course component.

39 Hours

Fee: \$588.83

★ **Diversity and Inclusion in the Workplace**

CMHR 600

Prerequisite(s): CMHR 523 or CHTH 503 or Direct Entry

The Canadian workforce has become more diverse in recent decades and is projected to be more so in the coming years. For example, women now account for almost half of the Canadian labour force. The aging of the Canadian population and the abolition of mandatory retirement means that a number of generations will be working side by side with each other. With globalization and the greater mobility of workers around the world, racial/ethnic minorities will soon account for one in three working Canadians in the not-too-distant future. A number of organizations have already realized the importance of all Canadians irrespective of gender, age, race/ethnicity, sexual orientation, religion and other dimensions of diversity in order to remain competitive on the global stage. This course will explore the opportunities and challenges of working in and managing diverse and inclusive workplaces.

39 Hours

Fee: \$588.83

★ **Recruitment and Selection (Staffing)**

CMHR 623

Prerequisite(s): CMHR 523 or CHTH 503 or Direct Entry

This course builds on the knowledge gained in MHR 523. It is designed to develop the student's knowledge, skills, and abilities in three significant integrated Human Resource areas: job analysis, recruitment, and selection. Students will interview an HR professional; write a job description and job specifications; investigate recruitment strategies and develop a job advertisement; examine various selection tools; and practice interviewing simulated job applicants. The course uses an experiential learning design, and students have opportunities to practice skills that are central to effective hiring decisions.

39 Hours

Fee: \$588.83

★ **Leaders as Coaches and Mentors**

CMHR 638

Prerequisite(s): CMHR 405 or CHTH 601

This course provides participants with the knowledge, skills, and abilities needed to both perform the roles of coaching and mentoring as they pertain to the development of employees and managers. It covers the planning for, implementation of, and evaluation of coaching and mentoring as well as the assessment and development of the interpersonal skills that are integral to these roles.

39 Hours

Fee: \$588.83

★ **Leadership**

CMHR 640

Prerequisite(s): CMHR 405 or CHTH 601

This course combines theory and practice by providing both a detailed overview of theories of leadership and an introduction to practical leadership techniques and group-level interpersonal skills for managers and supervisors. The course extends knowledge of leadership by building on the foundation of the leadership material provided in other organizational behaviour courses.

39 Hours

Fee: \$658.85

★ **Management of Change**

CMHR 650

Prerequisite(s): CMHR 405 or CHTH 601

This course will build on an understanding of organizational behaviour, and will focus on an understanding of change agents within organizations. By applying basic organizational behaviour and organizational theory concepts to change management, the course will explore forces for change, resistance to change, management of change, new theories and methods of change, and innovation and leadership in organizations. The course includes some emphasis on the implementation of information technology, and combines theory with practice.

39 Hours

Fee: \$588.83

★ **Special Topics in Org Behav and HR Mgmt**

CMHR 670

Prerequisite(s): CMHR 405 and CMHR 523

This course provides students with the opportunity to pursue advanced studies on issues and themes of immediate and current significance in the fields of Organizational Behaviour and Human Resources Management. It allows students to access leading-edge research and to explore new and emerging models of practice. The particular theme, topic, and structure of the course will vary in response to changes and trends in the field, availability of specialists, and student interest.

39 Hours

Fee: \$588.83

★ **Human Resources Information Systems**

CMHR 671

Prerequisite(s): (CMHR 523 and CITM 100) or (CMHR 523 and CITM 102) or Direct Entry

Human resources (HR) professionals are responsible for managing the organization's key assets - human capital. Business information technology is pervasive in today's organizations, and HR professionals are relying on human resources information systems (HRIS) to help them support strategic HR management and deliver effective HR services. Today's HR managers must understand not only HRIS applications such as e-cruiting and compensation, but also the strengths and limitations of the technology infrastructure as they work with technology professionals in establishing and using HRIS. (Not available to students with credit for MHR 670 in F2009 and F2010).

39 Hours

Fee: \$658.85

★ **Cross-Cultural Dimensions of Organizational Behaviour**

CMHR 700

Prerequisite(s): CMHR 405 or CHTH 601

This course addresses the opportunities and dilemmas that managers face when working in multicultural and global environments. The course is designed to increase managers' effectiveness in identifying, understanding, and managing the cultural components of management, recognizing cultural differences in managerial style, communicating across cultures, creating cultural synergy, managing globally competent people, entry/re-entry, managing ethically across cultures, and understanding, managing, and valuing diversity. Teaching methods include lectures, experiential exercises, group discussions, and audio/video presentations and cases.

39 Hours

Fee: \$588.83

★ Occupational Health and Safety**CMHR 711**

Prerequisite(s): CMHR 523 or CHTH 503 or Direct Entry; Not available to students in Occupational and Public Health.

This course is designed to provide students with an introduction to the growing and changing field of Occupational Health and Safety Management. The multiple dimensions of the subject - technical, legislative, political, personal, and moral - will be covered. Topics will include: legislation, accident prevention, sickness, lateness and absenteeism, establishing corporate physical and mental health policies, practices and programs, monitoring of the workplace environment, and establishing industrial hygiene standards and corporate health and safety policies.

39 Hours

Fee: \$588.83

★ Negotiation and Conflict Resolution**CMHR 721**

The primary objective of this course will be to explore the major concepts and theories of the psychology of negotiation and conflict resolution. A second objective is to enable students to apply these concepts and theories, through role-plays, class discussion and self-assessment, to analyze and adjust their negotiation and conflict styles to achieve better outcomes for themselves and others.

39 Hours

Fee: \$658.85

★ Training and Development**CMHR 733**

Prerequisite(s): CMHR 523 or CHTH 503 or Direct Entry

This course examines the theory and practice of the training and development function of human resources management in work organizations. Students will learn how to assess needs, set learning objectives, design learning activities, and evaluate program effectiveness through hands-on experience. Related topics include: learning theory, budgeting, alternatives to training, staffing and societal issues, and training.

39 Hours

Fee: \$588.83

★ Managing Interpersonal Dynamics**CMHR 741**

Prerequisite(s): CMHR 405 or CHTH 601

The development of interpersonal skills is a lifelong process which involves understanding oneself and other people. A manager's success is highly dependent upon his or her self-awareness and ability to interact effectively with subordinates, superiors, peers. The course combines conceptual and experiential learning and strongly emphasizes skill practice and feedback. It moves from a focus on the management of self to a focus on the management of others, individually and in groups. Topics include: increasing self-awareness, supportive communication, understanding others, using power and influence successfully, dealing with conflict, and managing group dynamics. This course is intended for students who already possess a conceptual foundation in organizational behaviour, who are seeking to learn more about themselves, and who want to enhance their interpersonal skills. (formerly MGT 741)

39 Hours

Fee: \$658.85

★ Compensation Management**CMHR 749**

Prerequisite(s): CMHR 523 or CHTH 503 or Direct Entry

This course provides students with an understanding of the principles, processes, issues and techniques involved in establishing compensation and reward programs in organizations within a framework of fairness and equity. Compensation will be looked at from the perspective of base pay, benefits and incentive pay. As well, students will be introduced to the relationship between motivation theories and effective remuneration and reward programs. The course will focus on the major components in developing an effective compensation and rewards program such as legislation, principles of equity and fairness, job analysis, job evaluation, compensation surveys, benefits and incentives. Current events in relation to compensation and rewards will be explored.

39 Hours

Fee: \$588.83

★ Organization Theory and Design**CMHR 841**

Prerequisite(s): CMHR 405 or CHTH 601

At some stage along one's career path the entrepreneur or manager will have to confront issues such as the changing global environment, mergers and acquisitions, technological advances and innovations, organizational politics, and conflict resolution. Organizations must change to accommodate these new internal and external contingencies. This course aims to provide students with an in-depth understanding of organizational structure and design in relationship to these issues. Topics include: organization environment, organic and mechanistic structures, the open system concept, impact of technology, global organization structures and contemporary approaches, management of innovation and change, organizational culture and ethical values, and organizational politics. (formerly MGT 841).

39 Hours

Fee: \$658.85

★ Human Resources Planning**CMHR 849**

Prerequisite(s): CMHR 623 and two of (CMHR 405, CMHR 522, CMHR 600, CMHR 711, CMHR 733, CMHR 749)

This course addresses the strategic human resource management activity of planning for future human resource requirements. The importance of aligning human resources planning with corporate and business strategies is emphasized, as well as preliminary needs for human resources information systems, job analysis, and environmental scanning. The course is centred around analysis and forecasting of the organization's future demand for human resources, and future supply of human resources. Related topics include: succession planning, career management, outsourcing, downsizing, and mergers and acquisitions.

39 Hours

Fee: \$588.83

★ Organization Development

CMHR 850

Prerequisite(s): CMHR 650

Organization Development (OD) is the system-wide application of behavioural science knowledge to the planned change of strategies, structures and processes in ways that engage organization members and lead to improvement of the human condition and organizational effectiveness. This is an upper level course that requires students to possess strong foundations in both organizational behaviour and change management. The course is highly experiential and includes a consulting project in which students, in small teams, conduct a comprehensive organizational diagnosis and make recommendations to improve the effectiveness of a local organization. The course also develops the student's knowledge and competencies in intervention techniques such as OD contracting, process facilitation, team building and inter-group conflict resolution.

39 Hours

Fee: \$658.85

INFRASTRUCTURE ASSET MANAGEMENT

Infrastructure asset management is a field in high demand, as much of our infrastructure is in need of renewal. Good infrastructure asset managers are required to achieve sustainable outcomes by applying holistic, systematic, and risk-based analyses and processes to decisions concerning an organization's or government's physical assets, including fixed plant and mobile equipment along with infrastructure.

Infrastructure Asset Management

Infrastructure asset management is geared toward the strategic knowledge and hands-on skills required for analyzing problems and providing long-range solutions associated with evaluation, preservation, rehabilitation and renewal of existing structures, together with repair materials, strategies, and risk, fiscal and asset management oversight. Infrastructures needing management during their repair, renewal, and maintenance cycles include roads, airports, railroads, transit systems, tunnels, water systems, levees, canals, dams, solid waste, broadband, and public spaces.

🔗 Infrastructure Asset Management Fundamentals **CKAM 100**

This course presents the basic principles and procedures involved in the introduction of an infrastructure asset management system and the implementation considerations of infrastructure asset management. It will provide participants with a broad understanding of how their organizations can benefit from optimal infrastructure asset management systems. It discusses the establishment of a framework; assessment of resources required; preparation, implementation, and monitoring of plans; and links with other elements of the organization. It focuses on the basic infrastructure asset management plan template, preparation steps, continuous improvement, and implementation. It also covers issues such as levels of service, condition assessment, and risk management.

39 Hours

Fee: \$789.25

🔗 Infrastructure Asset Financial Management and Practices **CKAM 110**

This course examines the ideologies of financial planning and reporting, as well as the tools and techniques used in infrastructure asset management. It covers the processes for lifecycle costing, valuation, financial forecasting, and reporting. It also provides an overview of issues and methodologies associated with asset assessment and financial forecasting standards, guidelines, and legislation. Related theories are explained and useful case studies presenting the application of solution-driven decision-making to practical infrastructure asset management problems are examined.

39 Hours

Fee: \$789.25

⊗ Engineering Risk Management**CKAM 120**

This course provides an overview of engineering risk management techniques in infrastructure asset management and renewal. It develops the participant's capability to identify, assess, improve, and limit risk in the management and practice of engineering through the application of concepts and tools of risk engineering. Several concepts will be introduced, including the semantics of risk and hazard; risk as a social construct; principles of risk management; risk engineering; integrating risk controls within the engineering process; risk perception, communication, and acceptability; legal principles relating to engineering risks; risk identification and assessment; hierarchy of risk control; risk benefit analysis; positive risk; and quantitative and qualitative risk assessment methods. Systematic and structured hazard identification techniques and examples in infrastructure renewal are introduced.

39 Hours

Fee: \$789.25

**⊗ Infrastructure Asset Maintenance,
Planning and Scheduling****CKAM 130**

This course introduces processes in infrastructure asset management that are fundamental to effective planning, scheduling, and successful deployment. Participants will learn how to apply a maintenance assessment process and proactive maintenance timeline; coordinate roles and responsibilities of maintenance supervisors and planners; differentiate between reactive, preventive, and predictive maintenance; explain work measurement to the maintenance work team; use performance metrics, PM and schedule compliance, and backlog, efficiency, and labour utilization; and define the essentials of critical path planning. The course also examines ways in which physical assets show structural and non-structural distress. Defects and problems relating to safety and damage caused by external factors are described, as well as maintenance challenges, management issues, and resolving emerged problems. Participants engage in hands-on activities that build systems-independent process knowledge and skills.

39 Hours

Fee: \$789.25

⊗ Infrastructure Asset Evaluation and Rehabilitation **CKAM 140**

This course examines the rehabilitation of civil infrastructure systems, including aspects of deterioration science, non-destructive assessment, maintenance, renovation, rehabilitation and preservation; mechanisms of mechanical, chemical, and biological infrastructure degradation; corrosion of steel condition surveys, evaluation of buildings and bridges repair, and preservation materials, techniques, and strategies; renewal engineering, construction planning, management, public policy, codes, and guidelines; and case studies. Defects and problems relating to safety and damage caused by external factors are described, and evaluation techniques for structural capacity and safety are presented. The course concludes with a consideration of economic evaluation of alternative rehabilitation strategies.

39 Hours

Fee: \$789.25

⊗ Infrastructure Project Evaluation**CKAM 150**

This capstone course provides students with fundamental knowledge about project evaluation, particularly investment decisions and financial considerations within infrastructure organizations. It provides understanding of how a cost benefit analysis of a capital project is scoped, including cases to be analyzed, relationships between those cases, and the degree of analytical effort required in a cost benefit analysis. The determining of discount rates for the purpose of project evaluation and the sensitivity of project evaluation outcome to changes in the discount rate are also covered, as well as calculation of benefits and costs. Examination of the decision-making process includes economic project selection, how cost benefit analysis can be complemented by other forms of analysis, and how regional and national impacts are considered in project evaluation. Models and processes for carrying out cost benefit analyses are analyzed, and pavement lifecycle costing and maintenance evaluation and optimization are discussed.

39 Hours

Fee: \$789.25

INTERDISCIPLINARY STUDIES

In the professional world of community services, no discipline or profession operates in isolation. The following courses, many of which are available by distance education, will develop your understanding of issues faced in the field from an interdisciplinary perspective. They will provide the knowledge and skills you need to work effectively across professional and disciplinary boundaries.

Interdisciplinary Studies

Related certificate(s): Aboriginal Knowledges and Experiences, Accessibility Practices: AODA and Beyond, Community Engagement, Leadership, and Development, Demographic Analysis, Ethics, Family Supports, Food Security, Fundraising Management, Gerontology, Health Studies, Nursing Leadership and Management, Advanced, Project Management

★ Program Planning and Evaluation Strategies **CINT 900**

This course will examine methods of program planning and evaluation that are applicable to health promotion practice. Students will study frameworks for planning human service programs and how evaluation is used for assessment of program effectiveness, for improvement of programs and for guiding resource allocation and policy development. (Formerly IST 900.)

39 Hours

Fee: \$593.72

★ Gerontology: Critical Issues and Future Trends **CINT 901**

This course will assess the influence of Canadian and world demographic trends on the community services for the elderly; assess the influence of recent Canadian research in the field of aging on the community services of the future; examine innovative and traditional programs administered both by government and private agencies in the Western industrial countries and evaluate their relevance for Canada. (Formerly IST 901.)

39 Hours

Fee: \$593.72

★ Disability Issues **CINT 902**

This course examines disability issues within a socio-political context. Such a perspective contends that it is not the specific type of disability condition which is the major source of disadvantage to the individual but the response that this condition evokes from the larger society. This course will challenge some of the traditional (and damaging) assumptions made about the needs of people labelled as being disabled and will present a framework for policy and practice designed to promote empowerment and inclusion. (Formerly IST 902.)

39 Hours

Fee: \$589.48

★ Health Promotion and Community Development **CINT 904**

Students will be introduced to the history and development of health promotion and will examine health determinants from environmental, cross-cultural, psychosocial and biological perspectives. The focus will be on the exploration of health promotion strategies which incorporate community development, popular education and social marketing models. (Formerly IST 904.)

39 Hours

Fee: \$593.72

★ Conflict Resolution in Community Services **CINT 905**

Antirequisite(s): CINT 914 and CSWP 924

Professionals in a wide range of disciplines are likely to encounter situations which are fraught with conflict, whether the issue is dealing with community opposition to the development of a new facility, developing environmental standards, allocating limited resources to meet emerging societal needs or dealing with the conflicting demands and expectations of different stakeholders. This course is designed to enable students to develop consensus-building strategies that produce agreements that everyone can live with. The course utilizes case materials and examples drawn from different disciplines. (Formerly IST 905.)

Note: This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39 Hours

Fee: \$593.72

★ Sexuality: Power and Pleasure **CINT 906**

This survey course examines the societal basis of attitudes and behaviours related to human sexuality. Students will be introduced to research and theoretical concepts in the literature that contributes to our understanding of sexuality. Sexuality is recognized as a complex and multi-dimensional component of human identity and experience, mediated and influenced by social constructs of gender, race, ethnicity, disability, sexual orientation, age and socio-economic opportunities. The course promotes critical self and social consciousness through challenging sex-negative religious traditions, institutional regulation/control of sexuality, and gender socialization including patriarchal family structure. Some of the topics to be considered are sexuality across the life course; sexuality and liberation; intimacy, love and relationships; sex and gender role socialization; sex, violence and the law, sex as a commodity and AIDS and sexual behaviour. (Formerly IST 906.)

Enrollment for the February offering of this course is only available by fax. Please print and fill out a Mail-In Enrollment Form and fax the form, including your credit card number and expiry date, to: Melissa Johnson, The G. Raymond Chang School of Continuing Education, Ryerson University, Fax Number: 416.979.5277.

39 Hours

Fee: \$589.48

★ Team Work for Community Services **CINT 907**

This course explores team practice in community services professions, as they transform practice to serve the needs of all stakeholders. The creation of new approaches to work with clients will be an outcome of the course. Theories of multidisciplinary, interdisciplinary and transdisciplinary team work will be presented. Different disciplinary perspectives will be respected and applied. Course methodology will allow the participants to model the theories and applications that form the core of the course. (Formerly IST 907.)

Note: This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39 Hours

Fee: \$589.48

☆ Homelessness in Canadian Society **CINT 908**

This course offers an interdisciplinary approach to understanding the complex problem of homelessness. Drawing on literature from Canada and the U.S., issues which underlie homelessness, the various ways in which these may be manifested, the ever changing characteristics of these populations, and the policy responses aimed at resolving issues are explored. The current state of statistical information, the views of frontline service providers and advocates, and the differing paradigms embedded in the various disciplines represented will form the basis for debate and shared learning. (Formerly IST 908.)

39 Hours

Fee: \$593.72

★ First Nations Issues**CINT 910**

Ogitchita Luwatilihunyunih (First Nations translation: strong helper's hands). This course offers students an interdisciplinary approach to address how to become an ally to Aboriginal peoples. Designed for community service students both from mainstream and Aboriginal backgrounds, this course applies an anti-oppression perspective to understand the origins of issues confronting contemporary Aboriginal peoples. To appreciate the process of Aboriginal self-determination, a holistic approach guides the examination of community services and infrastructure responsive to the needs of First Nations' communities. (Formerly IST 910.)

39 Hours

Fee: \$593.72

★ International Community Development**CINT 911**

This course will introduce the student to the challenges of sustainable community development in the developing world. The course begins with a broad exploration of the meaning of development and underdevelopment and its relevance to Asia, Latin America, Africa and the Middle East today. This course will also explore various approaches which have been used in local, bottom-up developments as well as some tools which are now available to assist the community development facilitator. (Formerly IST 911.)

39 Hours

Fee: \$593.72

**★ Community Development:
International Field Experience****CINT 912**

This course provides an opportunity for students to deepen their understanding of development issues, and to experience part of their learning in an interdisciplinary, international, and intercultural setting. Following a brief in-class orientation at Ryerson, the field experience part of the course is held overseas. Canadian students will work with students from the host country on specific projects relevant to community development in that country. The country and projects selected may vary from year to year.

39 Hours

Fee: \$606.45

★ Issues of Migration**CINT 913**

This course examines the main concepts and issues in contemporary migration studies by employing historical and international perspectives. The course will examine the Canadian response and the evolution of a post-war system implemented to deal with refugees and immigrants. Case studies of immigrants to Canada and to other parts of the world are used to illustrate theoretical concepts and to promote an understanding of the contextual nature of contemporary migration processes. Comparisons with other societies such as Australia, the United States and to the European Union will be discussed. The course will use a critical social sciences approach to address the implications of the North-South, and South-South relationship in the creation of refugees and immigrant populations.

Note: This course is part of the Immigration and Settlement Studies Course Series.

39 Hours

Fee: \$593.72

★ Settlement Experiences**CINT 914**

This course examines the settlement processes experienced by new immigrants and refugees. The course discusses the different forms of resettlement, receptions, repatriation, social capital and human capital. It will also discuss the theoretical approaches to citizenship, nationalism and multiculturalism. The course introduces the intersection of race, gender, class and citizenship. It reviews current debates regarding settlement policies and services provided to different classes of immigrants.

Note: This course is part of the Immigration and Settlement Studies Course Series.

39 Hours

Fee: \$593.72

★ Responses to Migration**CINT 915**

The focus of the course will be on the determinants of responses to migrants and migration through an examination of topics including racism, the media, legal status, services available to newcomers, education and credential recognition, and issues of housing discrimination. The goals of this course are to familiarize students with factors known to contribute to negative or positive responses to migrants and migration. In addition students will learn to apply these factors to important practical issues in a critical and reflective manner such as understanding trends over time in migration attitudes and looking at present strategies that may be utilized to improve responses to migrants and migration.

Note: This course is part of the Immigration and Settlement Studies Course Series.

39 Hours

Fee: \$593.72

★ Introduction to Fundraising**CINT 916**

This course provides a view of the Canadian voluntary sector and its organizations, as well as an introduction to concepts and issues related to the practice of fund development. This comprehensive overview also acts as a knowledge base for subsequent, in-depth study of the various aspects of fund development. The concept of philanthropy and various fund development approaches will be explored.

39 Hours

Fee: \$593.72

★ Community Development**CINT 917**

When citizens become involved in the development of their communities, the results are distinct from state or private led development. Participatory development requires planning and organizing as well as skills such as facilitation and mediation. This course uses case studies to blend considerations of different disciplinary approaches to Community Development with reflections on practice. Students will have an opportunity to learn skills and techniques for facilitating the process of participatory community development.

39 Hours

Fee: \$593.72

★ Community Collaborations

CINT 920

This interdisciplinary course will assist students and practitioners to develop the knowledge and skills required to participate effectively in multi-sectoral community collaborations. The course will provide an overview of collaboration and will review common challenges and factors influencing success. Collaborative processes will be examined including community engagement and mobilization, outcomes-based strategic planning, implementation of strategies and sustaining momentum, governance, leadership, communications, and evaluation. Examples will be provided of community collaborations focused on improving outcomes for children, youth and families.

Note: This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39 Hours

Fee: \$593.72

★ Writing for Disability Activism

CINT 921

This is an applied writing course: you will write and think critically about writing. This is also an interdisciplinary course which means you will work with other learners across a range of disciplines and learn from and about a range of disciplines. Starting with writing from within the disability movement, we will introduce you to writing as a form of expression, inquiry, resistance, solidarity, and survival. We will draw on readings and examples from different disciplines and explore how writing changes depending on the disciplinary context. We welcome experienced and novice writers. Students should be interested in writing and social change.

Note: This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39 Hours

Fee: \$667.98

★ Intro to Aboriginal Worldviews

CINT 922

Antirequisite(s): CSWP 934

An introduction to Aboriginal worldviews in Canada with reference to Aboriginal worldviews globally. Students will be introduced to Aboriginal perspectives, values and spirituality. It includes an exploration of what constitutes “valid” knowledge, how knowledge shapes identity and how it influences the lives of Aboriginal peoples today. The role of worldviews as the basis of social justice and transformative change with the message that Aboriginal/ Indigenous knowledges can be of value to all people of the world.

39 Hours

Fee: \$593.43

★ Canada's Story: An Aboriginal Perspective

CINT 923

This course will explore the background of Aboriginal peoples from the time of creation, through the processes of colonization, its present impacts and resistance to such impacts. It will address the arms of colonization such as the Indian Act, residential school system, child welfare and education. Aboriginal peoples' survival, resistance and healing will also be a major component to this course.

39 Hours

Fee: \$593.43

INTERIOR DESIGN

Professional interior designers make the most of the places where we live, work, and play. Using colour, space allocation, acoustics, illumination, patterns, and textures, they create beauty and functionality. Their services are needed in every imaginable interior setting – from corporate offices and shopping centres to restaurants, hotels, hospitals, and residences. If you would like to learn more about this fascinating field, then these courses may be for you.

Interior Design

Related certificate(s): Design for Arts and Entertainment, Design Management, Interior Design, Fundamentals of

🌀 Design Theory

CDID 150

This is an introductory course that focuses on the multiple disciplines and concepts that impact the foundation of design at both a micro and macro level. Students will be introduced to the basic elements and principles that demonstrate visual organization and provide the tools for analyzing and synthesizing the application of design. This course will provide the theoretical underpinnings that allow students to creatively apply knowledge to both two- and three-dimensional design assignments and projects. In addition, the course may include field trips, collaborative and individual assignments, and in-class studio/lab work.

Supplies and materials to be purchased by the student: A list of supplies and materials required will be given to students after the first class.

39 Hours

Fee: \$717.22

★ Interior Design I: Drafting

CDID 151

Prerequisite(s): CDID 150

The first of a series of courses providing an introduction to four primary performance objectives which relate to drafting, planning and research, professional ethics, and the sensory environment. The focus of this course is visual communication to provide the student with a foundation in manual drafting practices through a series of drawing exercises relating to small scale residential interior spaces. CDID 151, combined with CDID 152, CDID 251, and CDID 252, is equivalent to IRN 100 and IRN 200.

Supplies and materials to be purchased by the student: A list of materials and equipment required will be given to students after the first class. Cost approximately \$200-\$225.

39 Hours

Fee: \$606.45

★ Interior Design I: Space Planning

CDID 152

Prerequisite(s): CDID 151

This course introduces the analytic and problem-solving skills relating to space planning of small-scale residential interior spaces and sequences that function effectively for people using them. Visual communication using manual drafting practices learned in CDID 151 is applied to interior design studio exercises. CDID 151, combined with CDID 152, CDID 251, and CDID 252, is equivalent to IRN 100 and IRN 200.

Supplies and materials to be purchased by the student: Students are expected to have all the required equipment from previous prerequisite courses. Additional supplies and materials are required. Cost approximately \$200.

39 Hours

Fee: \$606.45

🌀 Interior Materials and Finishes

CDID 153

Prerequisite(s): CDID 150

“Interior Finishing” introduces the principles, regulations, standards, systems, materials, and details of standard residential and commercial floor, wall and ceiling surface treatments, millwork and textiles, and the finishes applied to them. Fire rating, VOC (volatile organic compound) emissions and sustainable design are introduced.

39 Hours

Fee: \$637.19

★ Design Dynamics I: Portfolio 1

CDID 155

Prerequisite(s): CDID 150

Two-dimensional design problems introduce the student to the concept of spatial illusion; how line shape, texture value, and colour can be manipulated to create the illusion of space. Building on skills developed in the first project, students will explore colour and typography as a source of visual inspiration, and through a series of transformations will explore the projection of 2-D images into 3-D reality. CDID 155, combined with CDID 156, CDID 255, and CDID 256, is equivalent to IRD 100 and IRD 200.

Supplies and materials to be purchased by the student: A list of supplies and materials required will be given to students after the first class. Cost approximately \$180.

39 Hours

Fee: \$606.45

🌀 Kitchen and Bathroom Design

CDID 157

Prerequisite(s): CDID 151

Kitchens and baths are essential to everyday living; they need to be designed so that they function as well as they look. Students will explore the specific requirements associated with kitchen and bath design. With an emphasis on the design process, this course covers the design of efficient and aesthetic kitchens and baths, including space considerations, equipment, current trends in materials, as well as human factors.

Note: It is recommended that CIRC 113 be completed before enrolling in this course.

39 Hours

Fee: \$627.46

NEW

Interior Design Intensive

CDID 999

This unique fast-track program covers all four required interior design courses plus three electives.

Note: Priority enrollment for certificate students begins on February 8, 2016. Regular enrollment begins on February 22, 2016. To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further program information, contact Academic Coordinator Winnie Leung at w3leung@ryerson.ca.

273 Hours

Fee: \$4389.67

★ Communications I

CIRC 112

This course develops skills in design communication and knowledge of basic computer applications used in the Interior Design program and profession. (Formerly IRC 102).

39 Hours

Fee: \$612.82

★ Communications II

CIRC 113

This course is a first in a series in design communication for interior designers that develops freehand drawing skills, including perspectives and rendering methods using various media. (Formerly IRC 103).

39 Hours

Fee: \$612.82

★ History of Design I

CIRH 101

Prerequisite(s): CIRH 202 or CIRH 115

Antiquity to the nineteenth century: This course examines the history of pre-Modernist design. It investigates the relationship between the fine and applied arts in aesthetic, practical, theoretical, social and global contexts.

Note: A prerequisite may be waived if the student has specific professional experience. See the section on prerequisites for more information. Registered certificate program students without the prerequisites wishing to take this course must contact Winnie Leung, Acting Academic Coordinator, at w3leung@ryerson.ca for more information.

39 Hours

Fee: \$606.45

★ History of Design II

CIRH 201

Prerequisite(s): CIRH 101

This course explores the meanings of Modernism. Emphasis is placed on the influence of industrialization and consequent changes in materials and technique, in the search for design paradigms appropriate to the social structure and ideals of the modern world.

39 Hours

Fee: \$606.45

☆ Intro to World Art I: Pictorial Arts

CIRL 100

This is an introduction to the study of art history from a cross-cultural perspective. The function of the pictorial arts (principally painting and sculpture) within religious, social and economic systems will be the primary focus of study. Students will be introduced to the diversity of artistic expression from across the globe and throughout history while they learn the fundamental principles and aims of pictorial expression and formal analysis. (LL)

39 Hours

Fee: \$612.82

☆ Modern and Contemporary Art, Design

CIRL 500

Introduction to modern art and design from 19th century avant-garde to the present. Students will learn about art, architecture and design in a period that has witnessed extraordinary changes in concepts and practices and the fundamental changes in the roles of institutions, individuals and audiences that support them. Students will explore the ways content, media and definitions of art and design reflect the circumstances of their production and conditions that have endured throughout the period. (UL)

39 Hours

Fee: \$595.84

Workshops in Design

Summer Quick Start

CDID 100

Primarily intended for students enrolling in the Interior Design program in September, this intensive one-week foundation course is designed to enhance drawing and communication skills. Students in their final year of high school who want to strengthen their portfolio may also attend with the written approval of their high school guidance counsellor or principal.

35 Hours

HST included

Fee: \$773.47

❖ **Techniques in Watercolour** **CDID 801**

A universal interest course. This course is designed to expose participants to the diversity of visual effects in watercolour and to begin building mastery over those effects. Learn watercolour's fluid and transparent properties. Use watercolour as a wash, a tint, and in full saturation. Experiment with watercolour in combination with pencil, ink, and a variety of drawing media. Exercises will offer direction for studying texture, surface and illusion. Course content is applicable to both fine art and commercial art purposes.

Supplies and materials to be purchased by the student: Participants are responsible for purchase of materials (cost approximately \$70). Do not buy any new materials before the opening class; however, do bring any watercolour supplies already owned. A list will be provided at the first class.

19.5 Hours HST included Fee: \$415.29

❖ **Drawing With Mixed Media** **CDID 802**

A universal interest course. This course deals with a variety of media in the rendering of a broad range of three-dimensional subjects. In particular, the course covers ways of applying effects to the rendering of interiors, objects, and material surfaces. Among the surfaces to be covered are stone, wood, fabrics, metal, and glass. Exercises will offer direction for the specific study of texture, pattern, contrast, and the play of light. As well as lending drama and excitement to illustrations, emphasis is placed upon developing a personal style.

Supplies and materials to be purchased by the student: Participants are responsible for purchase of materials (cost approximately \$70). Do not buy any new materials before the opening class; however, do bring any pertinent supplies already owned. A list will be provided at the first class.

19.5 Hours HST included Fee: \$415.29

❖ **Drawing Fundamentals** **CDID 803**

Come test the theory: Everyone can draw! Everyone has the instinct toward language - verbal and visual. This course teaches the visual "language" that is natural to us all. It begins at the most rudimentary level and progresses through each of the developmental stages that lead to image-making skill. A series of exercises taken in sequence will build the powers of observation needed to transform a three-dimensional subject into a two-dimensional symbol. Learn the fundamentals of gesture, line, light and shade, and space. Commitment to weekly practice will determine the level of progress. The course objective is to make drawing a part of everyday life.

Note: Course content is applicable to both fine art and commercial art fields.

Supplies and materials to be purchased by the student: Participants are responsible for purchase of materials (cost approximately \$70). No supplies are necessary at the first class.

36 Hours HST included Fee: \$570.15

❖ **Colour Studio Workshop** **CDID 805**

The Colour Studio Workshop is an intensive studio-based, experiential course exploring colour theory and colour harmonies essential for fine artists, graphic artists, portfolio building, interior decorators and designers, architecture, fashion, and general interest.

19.5 Hours HST included Fee: \$485.58

❖ **Workshop in Computer-Aided Design** **CDID 831**

This introductory-level workshop is designed for the student or professional who is interested in computer-aided drafting using AutoCAD. Participants will learn to input their two-dimensional ideas into the computer using AutoCAD's drawing and editing features. This hands-on course is designed to give students knowledge to start and finish a drawing on the computer and then plot it out.

19.5 Hours HST included Fee: \$485.58

JOURNALISM

We offer courses in Journalism, Magazine and Web Publishing, and Publishing to meet the needs of today's students and professionals. Whether you are taking courses for personal interest or professional development, we are sure to have something for you.

Journalism

Related certificate(s): News Studies

❖ Interviewing: The Art and Craft of Asking Questions CDJN 448

The French philosopher Voltaire once said, "Judge a man not by his answers, but by his questions." The art of asking questions is one of the most important communication skills. This course provides journalists, writers, and anyone who wants to improve his or her interviewing techniques with relevant information and hands-on experience. In addition to practical assignments, guest speakers, and field trips, topics include research and focus, how to find and contact interviewees, preparing and asking questions, listening skills, specific tips for telephone, print, and broadcast interviews, and more.

39 Hours HST included Fee: \$761.58

❖ Freelancing the Future CDJN 449

All social and economic indicators point to freelancing as the way of the future in journalism and communications. This seven-week workshop provides participants with the knowledge and skill to become self-employed professionals. Topics include finding and proposing ideas, marketing yourself, establishing and negotiating fees, preparing a business plan, market opportunities, tax advantages, what you need to get started, and much more.

Note: Instructor: Paul McLaughlin is an award-winning magazine writer, broadcaster, and playwright. A journalist since 1973, he has been published extensively in most major Canadian magazines, and has worked as a producer and freelance interviewer for CBC Radio. He has written four books, including How to Interview (originally titled Asking Questions: The Art of the Media Interview). Paul has also produced videos, including Hockey Night in Hollywood, a CTV special starring Wayne Gretzky. A journalism instructor at Ryerson University, Paul has also taught journalism at Carleton University and Algonquin College.

19.5 Hours HST included Fee: \$415.29

❖ Copy and Content Editing CDJN 450

The skilled copy editor is a writer's best friend - even when he or she is the writer - and the reader's champion. This course provides editors and writers with the tools to improve copy while preserving the text's good features and the writer's style. Topics include analyzing and editing copy for clarity and consistency, understanding style and conforming to it, editing copy to fit an allotted space, and writing headlines and cutlines.

Texts Required: CP Style Book, CP Caps and Spelling, available at the Ryerson University Campus Store.

39 Hours HST included Fee: \$755.08

❖ Writing for the Print Media CDJN 458

This course is designed to improve your writing skills. Work with a reporter, an editor, a feature writer, a columnist, and a public relations specialist. You will write news stories, press releases, a feature story, and a column. Through discussions, assignments, and workshops, students will also learn interviewing techniques and media relations strategies that work. This is a practical course focused on making your writing more effective.

39 Hours HST included Fee: \$761.58

❖ Inside Journalism CDJN 466

What draws people to journalism as a profession? And what keeps them there? What do journalists really do? How do they think? What happens behind the scenes? This course is an excellent primer for people considering the field of journalism as a first career choice or career switch. Students will explore the areas of print reporting, magazine writing, television news and current affairs, web reporting, column writing, and more; they will try their hand at some basic journalistic skills, and consider the profession from the viewpoint of popular culture, real-life stories from guest experts, and an evening in a working newsroom.

39 Hours HST included Fee: \$692.36

❖ How To Sell A Documentary CDJN 467

This course guides students through the development stage of documentary filmmaking, teaching you how to refine your ideas, how to use research and interview techniques, and how to write a proposal or treatment. In this context, students will view different styles of documentary films and discuss their treatment of different issues raised. The course will culminate in a mock "pitch session" with a complement of commissioning editors from the broadcasting industry.

Note: Instructor: Elizabeth Klinck has 25 years' experience of documentary research and production for producers and broadcasters including the National Film Board of Canada, Witness (CBC), BRAVO!, Discovery Canada, HBO, and PBS. She has worked with such directors and broadcasters as Adrienne Clarkson, Donald Brittain, Alan King, John Kastner, and Gwynne Dyer.

24 Hours HST included Fee: \$752.73

❖ Finding Your Voice: The Art of Column Writing CDJN 477

Have you always yearned to be a columnist? Good news. There's never been a better time to do so. With the Internet now augmenting the traditional guest-column market, every writer who builds the right kind of media platform stands on a soap box looking out on the world. This writing workshop will help you assemble the professional tools to craft columns that will be noticed. By drafting and polishing, you will find your unique voice.

36 Hours HST included Fee: \$668.56

★ **Ethics and Law in the Practice of Journalism** **CJRN 123**

Prerequisite(s): JRN 120 or CNNS 101;
Antirequisite(s): BDC 915 and BDC 918 and PHL 800

This course prepares students for many of the ethical problems they will encounter as professionals and introduces them to the legal framework in which journalism is practised. Legal themes include defamation, contempt of court, search and seizure, and the Youth Criminal Justice Act. Ethical themes include fairness, conflict of interest, plagiarism and fabrication, protection of sources. Other considerations will include respect for privacy and freedom of expression. Best practices and guidelines for conduct are introduced, but students are also introduced to philosophical concepts and tools that can aid everyday decision-making. Practising journalists and media lawyers will help students gain command of these various and intersecting issues.

39 Hours Fee: \$652.07

★ **History of Journalism** **CJRN 401**

Prerequisite(s): JRN 120 or CNNS 101;
Antirequisite(s): JLS 600

This course studies the evolution of journalism from 1600 to the present. It examines the various forms that news took at different periods and in different places; how news influenced culture and was influenced by it, as well as by changing technology, business organization, and markets; how different audiences used and responded to news; and how the producers of news understood their work in relation to their society, their audiences, their employers and their peers.

39 Hours Fee: \$652.07

★ **Journalism's Best** **CJRN 404**

Prerequisite(s): JRN 120 or CNNS 101;
Antirequisite(s): ENG 700

Students examine the work of outstanding journalists in broadcast, newspapers, magazines and online through readings, lectures, videos, tapes and discussions. Students examine why certain pieces stand out in the context of their time and place.

39 Hours Fee: \$652.07

★ **Documentary Survey** **CJRN 412**

Prerequisite(s): JRN 120 or CNNS 101

Students screen long-form documentaries ranging from classics from the last 50 years to contemporary productions. Students come to understand how the conventions of documentary storytelling have changed over the decades. They explore issues of voice, stylistic and narrative conventions, shooting and editing styles, and other aspects of documentary.

39 Hours Fee: \$652.07

Journalism Workshops

❖ **Copy Editing: In Search of the Perfect Word** **CDJN 462**

Copy editors edit above all to communicate to readers. But editors who love their readers also cherish their writers - and can become their best friends. There is a creative job that improves the quality of copy. This workshop is for people who care about language and want to help writers, including themselves, tell readers what they mean in a clear, concise, correct, and interesting way. It deals with the basics - spelling, punctuation, and grammar - as well as knowing what to look for, conforming to style, editing for space, and making quick, logical, and defensible decisions.

12 Hours HST included Fee: \$538.59

❖ **Writing for the Internet: The Word Online** **CDJN 464**

The Internet is a communications medium filled with possibilities and limitations. Its hyperlinked, two-way, multimedia and interactive nature means that new skills and techniques - and some traditional ones - need to be carefully applied in order for content to communicate, compel, and build community. This two-day workshop will provide an introduction to skills necessary for effective online writing. That means new ways of conveying information in short, concise and innovative formats that will attract the eyes of internet users.

12 Hours HST included Fee: \$580.76

❖ **Spin: Journalism PR and the Search for Truth** **CDJN 469**

We live in an age of "spin." We are bombarded by prepackaged messages from politicians, lobbyists, business leaders and official "spokespeople" of all kinds. We are getting a lot of strategic communication but not much real communication. Sometimes it's hard to know where to turn to find the "truth." Historically, we've looked to the media for that, but all too often these days, the press seems to be seduced by spin as well, just another branch of the "spindustry." This course examines the complex relationship between the PR industry and the mass media, the pervasiveness of spin in contemporary society, and the impact it has on us.

Note: Instructor: Ira Basen is a veteran CBC producer and former executive producer of CBC Radio's Sunday Morning. He is completing a book on spin.

12 Hours HST included Fee: \$538.59

News Studies

Related certificate(s): News Studies

★ **Introduction to News Studies** **CNNS 101**

Antirequisite(s): JRN 120

Students are introduced to core values of journalism, the community of practice in which journalists operate, the essence of a basic news story, and the fundamental tools that reporters, editors and producers use. The course also examines the context of journalism practice: the role of journalism in society, changing technologies that affect journalism and changing public perceptions of the news media. In addition to learning about these things in theory, students will complete a small number of basic news writing assignments.

39 Hours Fee: \$652.07

★ Understanding Multimedia Journalism

CNNS 102

*Prerequisite(s): JRN 120 or CNNS 101;
Antirequisite(s): JRN 112, JRN 125*

Students receive grounding in basic disciplines involved in using sound and pictures to tell nonfiction stories. Trends in modern multimedia journalism will be described, including the use of various digital platforms and social media. Students will emerge with a theoretical understanding of the interplay of various media in the news business today, and each student will also complete at least one basic reporting assignment using audio, video, and/or still photography, as well as text.

39 Hours

Fee: \$652.07

★ Journalism and the Arts

CNNS 500

Prerequisite(s): CNNS 101

An opportunity for students to explore reporting on culture of all kinds, including policies, personalities and performances, and to gain insight into the relationship between journalism and cultural production. The course introduces students to reviewing different works of art. Students will be enrolled in sections with a view to the amount of journalism experience they bring to the course, and assignments will be tailored to these differing levels of experience.

39 Hours

Fee: \$652.07

★ Journalism and the World of Business

CNNS 502

*Prerequisite(s): JRN 120 or CNNS 101;
Antirequisite(s): CJRN 502*

Students learn how businesses behave and how journalists assess their performance, through investigative reporting, interpreting key financial documents, probing a business's performance, practices and challenges, and narrating a company's fundamental drama. The role of the business reporter and his or her relationship with sources will be analyzed.

39 Hours

Fee: \$652.07

★ Health and Science Journalism

CNNS 505

Prerequisite(s): Department consent

Using current debates in the health and science fields, students learn how to bridge the gap between scientific jargon and readers or audiences. They address the importance of evaluating claims and explore techniques for communicating complex ideas. Students will be enrolled in sections with a view to the amount of journalism experience they bring to the course, and assignments will be tailored to these differing levels of experience.

39 Hours

Fee: \$652.07

★ Reporting Sports

CNNS 512

Prerequisite(s): CNNS 101

An introduction to working the beat in sports journalism, including developing sources and story ideas and maintaining a reporter's independence from the pressures of commercial sport and home-team cheerleading. The impact of deadlines on sports journalism and sports writing, and an examination of what constitutes excellence in sports reporting will be discussed. Students will be enrolled in sections with a view to the amount of journalism experience they bring to the course, and assignments will be tailored to these differing levels of experience.

39 Hours

Fee: \$652.07

LANDSCAPE DESIGN

Landscape Design combines the fields of art, science, and humanities. The certificate program offers an excellent education in the fundamental components that comprise the field of landscape design. Through course offerings, you will learn how to analyze, plan, design, manage, and sustain the built and natural environment.

Landscape Design

Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced, Computer Programming Applications, Landscape Design, Sustainability Management and Enterprise Process Excellence

🌀 Landscape Design Communications and Theory **CKLA 300**

The course begins by exploring the use of the line drawing including the landscape plan, sections, and elevations. It moves into the introduction of basic methods of designing landscape spaces and composing site content. Organizing systems include the grid and form composition.

Note: This course is delivered in a lecture/studio format.

39 Hours

Fee: \$756.40

🌀 Landscape Construction, Materials and Methods **CKLA 310**

The purpose of this course is to understand and investigate the origins, characteristics, and design applications and methodologies used in landscape construction. The process of designing, selecting, pricing, sourcing, constructing, and maintaining hard and soft landscape materials are discussed. Life cycle and sustainability of material selection is woven into the course content.

39 Hours

Fee: \$756.40

🌀 Plant Materials **CKLA 320**

This course presents and evaluates deciduous and evergreen woody plant materials as basic structural design elements of the landscape. It covers introduced species as well as those native to Canada. Students will become familiar with the range of landscape applications for the species covered, as well as the relationship between their autecology and site selection.

39 Hours

Fee: \$756.40

🌀 Landscape Design Studio **CKLA 330**

Prerequisite(s): Department consent

This course deals with the application of landscape design theory in the development of landscapes based on site analysis and program criteria. This studio course will focus on the student's individual exploration of the process of design development and problem solving as a means of preparing creative landscape solutions for a medium scale urban site.

39 Hours

Fee: \$756.40

🌀 Ecology and Sustainable Landscapes

CKLA 400

This course examines the fundamental concepts and principles of ecology as a basis for sustainable landscapes. Ecosystem structure, processes, dynamics, and resilience are considered as a basis for facilitating the design and management of landscapes in a variety of land-use scenarios, particularly in urban regional environments. Sustainable land-use practices based upon ecological resilience are investigated. Several ecological frameworks for sustainable landscape design and management including Adaptive Management and Collective Action are presented and analyzed.

Note: The Spring/Summer distance offering of this course includes a mandatory 1.5 hour, weekly Adobe Connect meeting on Wednesday evenings from 6:30 p.m.-8:00 p.m.

39 Hours

Fee: \$756.40

🌀 Horticultural Science

CKLA 410

This course introduces the fundamentals, principles, and practices of horticulture. Topics include flowering bulbs, annuals, perennials, lawns, ground covers, woody plants, and cultural requirements. Plant propagation and greenhouse structure, plating techniques and grafting, and pest and disease identification and control are discussed and demonstrated in the greenhouse and testing lab.

39 Hours

Fee: \$756.40

🌀 Art and Management of Planting Design

CKLA 420

Perennial, grasses, and wildflower plant materials continue to be recognized as significant components of a successful landscape planting design. This course focuses on plant identification, planting combinations, and design compositions using native and exotic materials available in Southern Ontario.

39 Hours

Fee: \$756.40

🌀 Making and Meaning of Landscapes

CKLA 430

This landscape design seminar/studio investigates grounding for sustainable design. We look at expressions of people's relationship with the natural environment through principles and theories of landscape design and the historical experience of landscape space.

39 Hours

Fee: \$756.40

🌀 Landscape Design LANDWorksCAD PRO

CKLA 440

Prerequisite(s): CKLA 300 or CKLA 707

In this professional practice course, lectures and interactive digital design activities for the built and natural environment focus on developing the highest quality graphic plans, elevations, axonometrics, 3-D perspective drawings, irrigation and lighting plans, construction details, all in the fastest possible time while augmenting your design style. Topics include professional practice in Canada as it relates to CAD design, colour rendering techniques, cost estimating applications, and the business of management of self-owned landscape design firms.

Supplies to be purchased by the student: Students are required to purchase a student edition of software. Information will be announced in class.

39 Hours

Fee: \$756.40

🌀 Landscape Restoration

CKLA 450

The purpose of this course is to develop an understanding of the basic principles involved in designing and implementing a restoration plan for a disturbed site with an emphasis on naturalization. Participants will receive basic instruction in site assessment, developing restoration objectives, implementation, and monitoring.

39 Hours

Fee: \$756.40

LAW

The following courses span a range of legal issues. Some investigate general legal principles, theories, and procedures; others, the laws that govern various industries and activities within those industries; and some, the law as it concerns consumer rights and protection, management and labour, or safety in the workplace. These courses are of value to professionals in any field who wish to understand the legal environment in which Canadian business is conducted.

International Business Law

All CIBS course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Global Management Studies

★ Legal Aspects of International Business **CLAW 724**

Prerequisite(s): CLAW 122

This course will acquaint the businessperson with the legal aspects of doing business in a global environment. It will include legal considerations relevant to entrepreneurs engaged in import or export and to companies seeking greater presence in foreign countries as well as legal principles applicable to multinational corporations. Topics covered will include: bilateral and multilateral trade agreements including the GATT, the EC and the Canada-U.S. Free Trade Agreement; legal aspects of the international sale of goods; legal aspects of financing international sales of goods; forms of business organization abroad; licensing and franchising; international protection of intellectual property; comparative anti-trust legislation; conflict of laws and international settlement of disputes. Students choosing LAW 724 should be in their graduating year. (Formerly IBS 800)

39 Hours

Fee: \$588.83

Law

All CLAW course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Accounting – Finance, Business Management, Computer Security and Digital Forensics, Ethics, Financial Planning, Health Informatics, Health Services Management, Health Studies, Human Resources Management, Nursing Leadership and Management, Advanced

★ Business Law **CLAW 122**

This is an introductory course, prerequisite to further studies in law. The course begins with a discussion of the nature and sources of law and an examination of the court system in Canada, the Charter of Rights and Freedoms, and a survey of the more important aspects of the law of torts. The course then concentrates on the legal requirements for the formation of a valid contract. Other major contract law topics include interpretation, privity, discharge, breach, and special types of contracts. Selected cases will be examined.

39 Hours

Fee: \$588.83

NEW

★ Law for Health Managers **CLAW 326**

An overview of law relating to Canadian health care delivery, principally from an Ontario perspective. Topics include the constitutional framework, regulation of health professions, medical ethics, public health, coroners' inquests, litigation, capacity and informed consent, powers of attorney, substitute decisions including end of life, mental health, health information and privacy, employment rights, dispute resolution, and how to search for applicable statutes, regulations and case law. Formerly HSM 326.

39 Hours

Fee: \$588.83

NEW

★ Information Access and Privacy Protection **CLAW 401**

Prerequisite(s): CLAW 122

This course aims to provide students with an introduction to key concepts of information access and protection of privacy and to provide practical skills on managing these two domains. It will highlight relevant principles and practices through an examination of applicable federal and provincial legislation with an Ontario emphasis.

Note: The prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who do not have the listed prerequisite and wish to take this course, may contact the Academic Coordinator, Avner Levin, at avner.levin@ryerson.ca for more information.

39 Hours

Fee: \$588.83

NEW

★ Health Information Access and Privacy **CLAW 402**

Prerequisite(s): CLAW 122

Laws governing health information privacy, access, and management have an impact on healthcare providers, public bodies with a role in the healthcare sector, employers, professional regulatory bodies, fundraisers, insurers, and researchers. This course is designed to assist these individuals develop a thorough understanding of the policies, practices, laws, and regulation that address confidentiality, privacy, and security of health information.

Note: The prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who do not have the listed prerequisite and wish to take this course, may contact the Academic Coordinator, Avner Levin, at avner.levin@ryerson.ca for more information.

39 Hours

Fee: \$588.83

★ The Law of the Marketplace **CLAW 525**

Prerequisite(s): CLAW 122

An examination of the law concerning the marketplace in Canada. Common law precedents and federal and provincial statutes which govern business practices and define legal rights and remedies in the commercial environment are analyzed. Major topics include product liability, consumer warranties, misleading advertising, regulation of competition, hazardous products, packaging and labelling, consumer credit transactions, and privacy and freedom of information legislation. Relevant statutes and selected cases are examined.

39 Hours

Fee: \$588.83

★ Employment and Labour Law**CLAW 529***Prerequisite(s): CLAW 122*

This course is designed to acquaint the student with a general understanding of labour and employment law, particularly in Ontario. The role of common law and Ontario statutes affecting workers is examined. Legislation and case law concerning hiring employment contracts, employment standards, human rights, privacy, health and safety and wrongful dismissal is reviewed. The latter part of the course introduces the collective bargaining relationship with particular concentration on the Labour Relations Act. Relevant statutes and selected cases are examined.

39 Hours

Fee: \$588.83

☆ Intellectual Property Law**CLAW 601***Prerequisite(s): CLAW 122*

This course addresses the salient elements of statutory intellectual property as well as trade secrets / confidential information. The Course delves both into the details of “traditional” intellectual property, its justification, its abuses as well as the exotic emerging versions, such as rights of personality / celebrity, geographical indicators, traditional knowledge, farmer’s rights and sound and smell trade-marks. The foundation of the course starts with an examination of the relevant international treaties, both the venerable and recent. The pivot of the course is the use and exploitation of IP in a business setting which will engage anti-competition issues.

39 Hours

Fee: \$572.26

★ Advanced Business Law**CLAW 603***Prerequisite(s): CLAW 122*

This course begins with an examination of the law governing business relationships and forms of business organizations, including the legal requirements for the formation of the corporation and partnership. Special contractual relationships affecting business are studied followed by an examination of the law pertaining to secured transactions and bankruptcy procedures. The course also surveys the law of real property, including the leasehold interest and mortgages. Relevant statutes and selected cases are examined.

39 Hours

Fee: \$588.83

★ Issues in Information Technology Law**CLAW 723***Prerequisite(s): CLAW 122*

This course focuses on emerging legal problems associated with the growth of information technology in Canada and internationally. It focuses on the legal protection of electronic information and technology through patents, copyright, trademarks and trade secrets, and upon contractual issues (electronic signatures, problems of verification, contracts which must be in writing, and security of information) in the procurement of products and services, especially through the Internet and other e-commerce conduits. A range of other topics, such as data protection and privacy, the regulation of the Internet, the harmonization of law globally, computer crime, and remedies will be discussed. Students should be in their graduating year.

39 Hours

Fee: \$588.83

☉ Law for Forensics Professionals**CZLW 120**

The legal environment in which computer security and digital forensics practitioners operate is complex and rapidly evolving. Criminal law, commercial law, privacy and human rights, intellectual property law, the rules of evidence, and rules of civil procedure are all involved. This course will introduce students to these and other laws and legal frameworks (Canadian and international) as they affect the work of security and forensics professionals. Particular emphasis will be placed on the legality of ethical hacking, collection and preservation of digital evidence, privacy, rights of the accused, and the role and responsibility of the expert witness in court. Students will be taught basic legal concepts, how to read and understand relevant statutes and case law, and how to prepare an expert report for lawyer/client, law enforcement, or the court.

39 Hours

Fee: \$793.49

LIGHTING DESIGN

These multidisciplinary courses are designed to provide you with the broad knowledge base and wide range of skills required as professionals in the lighting industry.

Lighting Design

Related certificate(s): Design for Arts and Entertainment, Facility Management, Lighting Design

★ Lighting Fundamentals

CDID 501

This course gives an overview of illuminating engineering and design. Concepts, nomenclature, and equipment are defined. Topics include basic electricity and energy, colour and colorimetry, photometry, sources of light and daylight, units of lighting measurement and calculations. Students gain a foundation of technical information sufficient to understand rudiments of lighting design. This course is recognized for CEU credit by IESNA (Illuminating Engineering Society of North America). Equivalent to a one-term professional elective in the Architectural Science Program. (Equivalent to one Professional elective from Table I, see Undergraduate Program Calendar.)

39 Hours

Fee: \$823.94

★ Human Factors in Lighting

CDID 502

Prerequisite(s): CDID 501

This course provides the human factors and psychology background necessary to understand the human needs served by lighting. Within the context of practical applications to interior and exterior lighting problems, the course material covers basic vision and perception in depth and provides an introduction to psychological processes, such as attention, aesthetic appraisal, and cognition, that play a role in human response to lighting. This course is recognized for CEU credit by IESNA (Illuminating Engineering Society of North America). Equivalent to a one-term professional elective in the Architectural Science Program.

Note: Registered certificate program students with industry experience may contact Academic Coordinator Gerry Cornwell at gerry@cornwell.ca for consideration to enroll in this course without the required prerequisites.

39 Hours

Fee: \$823.94

★ Introduction to Lighting Design

CDID 503

Prerequisite(s): CDID 501

This course emphasizes the use of the design process for developing lighting systems design as applied to a number of practical problems. Students will present their proposed lighting systems design solutions in a formal setting for evaluation. Lighting system performance metrics (visibility, glare, psychological effects), various computational methods and light sources are studied and solutions applied to practical problems of lighting interiors. Equivalent to a one-term professional elective in the Architectural Science Program. (Equivalent to one Professional elective from Table I, see Undergraduate Program Calendar.)

Note: Registered certificate program students with industry experience may contact Academic Coordinator Gerry Cornwell at gerry@cornwell.ca for consideration to enroll in this course without the required prerequisites.

39 Hours

Fee: \$823.94

★ Lighting Energy Management

CDID 504

Prerequisite(s): CDID 501

This course studies various integrated building systems and the interrelationship between these systems and lighting of various types. Using case studies and assignments, students will evaluate the methods of, and the results from, applying energy-efficient lighting design. Attention is given to codes and energy regulations currently being enforced within the building industry internationally, nationally, and locally. Equivalent to a one-term professional elective in the Architectural Science Program.

39 Hours

Fee: \$823.94

★ Introduction to Daylighting Design

CDID 550

Prerequisite(s): CDID 501, CDID 502, CDID 503, and CDID 504

This course emphasizes the science and practice of using daylight as a source of interior light. The course material covers daylight availability, delivery systems, computations, integration with other building systems and application of prediction models. Analysis and methods include the effect of daylighting in enclosed architectural spaces on illumination levels, visual performance, thermal loads and energy. Classroom exercises include physical sky models, sunshading exercises, application of predictive models and performance evaluations of daylighting in case studies or site visits. Equivalent to a one-term professional elective in the Architectural Science Program. (Equivalent to one Professional elective from Table I, see Undergraduate Program Calendar.)

39 Hours

Fee: \$823.94

★ Advanced Lighting Design

CDID 551

Prerequisite(s): CDID 501, CDID 502, CDID 503, and CDID 504

This studio course is the culmination of the skills learned in the prerequisite courses, applied to specific, complex lighting design problems. Emphasis is on comprehensive, practical solutions to design, budget, energy and systems issues. Students will be guided by a working professional, and will study the application of elements of lighting which are more difficult to quantify, such as colour, form, space, plane, rhythm, balance, and texture. Students will also study examples of the use of light in other media such as film, theatre, and public events. Equivalent to a one-term professional elective in the Architectural Science Program.

39 Hours

Fee: \$823.94

☉ Entertainment Lighting Design

CDID 552

This studio course is an introduction to the techniques of theatre lighting design. The focus of the course is lighting design issues and methods in theatre lighting. The emphasis is on hands-on practice and experience. Students will complete one major theatre lighting design assignment.

39 Hours

Fee: \$883.78

☉ Lighting Design Practicum

CDID 553

Prerequisite(s): CDID 501, CDID 502, CDID 503, CDID 504, CDID 550, and CDID 551

This course is an advanced-level course which stresses individual study, self-motivation, the skills required to research information, oral and written presentation, and client communication skills. Students work with the guidance of a recognized Canadian or international lighting designer on a significant project or projects.

39 Hours

Fee: \$842.93

⦿ Lighting Research Practicum

CDID 554

Prerequisite(s): CDID 501, CDID 502, CDID 503, CDID 504, CDID 550, and CDID 551

This course is an advanced-level course which stresses individual study, self-motivation, the skills required to research information, oral and written presentation, and client communication skills. It provides an opportunity for students to investigate a problem in either lighting technology or lighting applications (e.g., a behavioural or perceptual effect) with a faculty member, or an adjunct such as the National Research Council, or an independent consultant, or an industry lamp/luminaire manufacturer. The student may define the research question in collaboration with the supervisor, or may work on an ongoing research practicum with a faculty member, and will define, conduct, and report on the investigation that answers the question.

39 Hours

Fee: \$883.78

MAGAZINE AND WEB PUBLISHING

Magazine and Web Publishing courses are designed for individuals who are planning a career in web publishing or the magazine industry, working at a magazine or website and looking to sharpen the skills they use in the job and/or broaden their knowledge of the other disciplines within their company, or thinking of starting up their own magazine or website.

Magazine and Web Publishing

Related certificate(s): Magazine and Web Publishing

⦿ Magazine and Website Publishing

CDJN 112

This course provides an overview of the business challenges and opportunities confronting magazine publishers today. All aspects of managing magazines, print or web-based, are touched upon: editorial, marketing, management, integration of web and print, advertising, production, and distribution; plus the challenges in starting a new publication. Guest speakers from the industry provide insights and the chance to ask questions and discuss issues. This course complements all other courses in the certificate program.

39 Hours

Fee: \$669.89

⦿ Magazine and Website Editing

CDJN 113

This course is a practical, step-by-step introduction to print and online magazine editing. The emphasis is on learning job skills in a workshop environment. Topics include: planning and coordinating print and web content, developing strong story ideas, working with contributors, handling manuscripts, writing display copy, budgets, the ethics of editing, and libel law. Class members get a chance to use their skills when they produce their own prototype magazines, working in small groups.

39 Hours

Fee: \$669.89

⦿ Introduction to Magazine Design

CDJN 116

In this course, we analyze how and why magazines look the way they do and develop professional visual awareness. We explore visual communication with specific readerships and compare traditional print publications with new online applications, with a focus on typography, grids, and formats; the anatomy and overall design direction of a magazine; assigning; developing design concepts; the cover; working out a book map; the aesthetics of magazine design; and technical considerations.

39 Hours

Fee: \$702.08

★ Writing for Magazines and the Web

CDJN 117

Intended for those with a serious interest in writing and selling non-fiction articles to print or online magazines or other communication venues, this is an introduction to the basics of conceiving, focusing, pitching, researching, structuring, writing and revising both short and longer feature articles. The course includes lecture/instruction, classroom exercises, and writing workshops with feedback from peers and the instructor. In addition to the recommended reading and weekly handouts, students are expected to read a wide variety of Canadian and American periodicals, and to complete (for grading) four shorter writing assignments, and one (1,000-word) feature story on a topic of their choice, targeted to an online or print publication. CDJN 117 combined with CDJN 118 is equivalent to JRN 124.

39 Hours

Fee: \$679.65

★ Advanced Feature Writing

CDJN 118

Prerequisite(s): CDJN 117

This project-intensive advanced course is designed for serious students of magazine feature writing to further develop their reporting and narrative skills. Students must have a familiarity with the basics of conceiving and focusing story ideas for specific markets as well as the fundamentals of researching, reporting, interviewing and writing, as covered in CDJN 117. The course emphasizes what is called literary journalism, which combines journalism's concern for solid reporting and factual accuracy with many of the dramatic techniques of fiction. At its best, this kind of feature writing holds readers' interest, entertaining them while simultaneously providing the depth and context necessary to understand complex issues and events or capture the essence of a profile subject. There will be short writing assignments as well as one longer feature, which must contain some or all of the elements of the course: evidence of on-the-scene reporting, a narrative arc consisting of a well-crafted beginning-middle-end, character development, the use of dialogue instead of (or in addition to) traditional quotation, the use of symbol to support theme, etc. Students are expected to come to the first class prepared to discuss story ideas and move on quickly to writing a query letter. CDJN 117 combined with CDJN 118 is equivalent to JRN 124.

Note: Candidates seeking admission by experience must produce a portfolio of feature work published in magazines and/or substantial magazine-style features from newspapers. For more information, contact the instructor at 416.466.5167.

39 Hours

Fee: \$679.65

🌀 Magazine Copy Editing

CDJN 119

This course is an introduction to the skills and knowledge required to ensure a high degree of clarity, consistency, and accuracy, as well as precise and appropriate use of language, in magazine editorial copy - print or web-based. After a magazine article has been edited, the copy editor attends to the finer details - checking grammar, punctuation, spelling, consistency of style, logic, and usage - and shepherds the article through the proofreading and production process. These "polishing" skills will be covered in this course, along with commonly used reference works, Canadian spelling, proofreader's marks, copy editing on computers, copy fitting, line editing, bias-free language, working with designed pages, and writing display copy. One lesson will be devoted to fact-checking. While students from many backgrounds may benefit from this course, successful copy editors need an above-average command of the language they're working in, and a wide-ranging general knowledge.

39 Hours

Fee: \$702.08

🌀 Magazine Fact-Checking and Research

CDJN 120

Independent fact-checking happens mainly at magazines, but the skills taught in this course can be used in any medium. In the magazine business, fact-checking is a key entry-level job, a way for aspiring writers or editors to learn how a magazine works and how professional writers put together a story, and to develop relationships with editors that can lead to assignments or jobs. For writers, the more they know about what happens to an article in fact-checking, the better prepared they'll be to provide what editors want - and to protect their copy. This course looks at why magazines employ fact-checkers; how fact-checking fits into the editorial process; how to document fact-checking according to industry standards; what to check and what not to check; finding research sources and judging their authority; the fact-checking telephone interview; working with writers and editors; and legal and ethical considerations.

***This course will run during the Winter break.*

19.5 Hours

Fee: \$370.80

🌀 Magazine Packaging

CDJN 121

This course focuses on packaging print and digital service journalism in ways that will delight readers and help them easily access the information they need, in print or online. The course looks at planning and assigning a story package for print, web, and tablet; editing stories destined for packages; and working with art directors and digital producers to create packages. A variety of types of stories will be discussed and provided by both the instructor and the students, from long features to visual stories to instructional pieces to words-and-pictures infographics. Students are encouraged to think of magazines as both print and digital products.

Note: Classroom Delivery uses in-class workshops, round-tables, story meetings, quick editing exercises, and hands-on group activities. Traditional lecture format is kept to a minimum and time is made available for one-on-one discussions with the instructor as well as peer feedback; Distance Delivery teaches the same skills and techniques, but makes use of online discussion forums, video and audio interviews, and self-assessment quizzes to augment the learning experience.

**This course will run during the Fall break.*

19.5 Hours

Fee: \$370.80

🌀 Advanced Magazine Editing

CDJN 122

This hands-on course focuses on effective editing of individual magazine articles - sometimes known as substantive editing - to help writers grab readers' attention at the start and keep them reading to the end. Areas covered include assigning or acquiring manuscripts; tailoring content for specific readerships; coaching writers according to their individual strengths and weaknesses; editing for completeness and clarity; effective cutting and silken transitions; and use of imagery, anecdote, and a variety of voices and rhythms to make an article sing. A must for anyone planning to edit longer manuscripts - and a very useful course for anyone planning to write them. (Formerly Substantive Editing for Magazines)

19.5 Hours

Fee: \$370.80

🌀 Success as a Freelancer

CDJN 123

This is a primer on how to run a freelance business as a writer or editor. It is aimed at students who are looking to get ahead in freelance work in the magazine and web industry (and beyond) and looking to gain hands-on tools and feedback to achieve their goals.

19.5 Hours

Fee: \$389.34

🔗 The Art of Pitching

CDJN 124

A singularly focused and practical, step-by-step course moving a would-be freelance writer through the finicky and often frustrating pitch process - from bright idea to research and sources to final query - thereby delivering a quality and saleable magazine pitch into the right editor's hands.

19.5 Hours

Fee: \$370.80

🔗 Magazine Advertising Sales and Marketing

CDJN 201

On average, Canadian magazine advertising sales representatives earn more than magazine editors and find it easier to step into the role of publisher. (All magazine publishers must have a thorough understanding of advertising sales.) This course provides students with the knowledge and skills required to sell magazine advertising in today's highly competitive marketplace. Fundamentals taught include: using standard research tools to develop sales presentations, sales call preparation, working with advertising agencies and closing sales. Guest speakers from the advertising field add to the learning experience.

19.5 Hours

Fee: \$389.34

🔗 Magazine Marketing and Circulation

CDJN 202

Never before has marketing meant as much to a magazine's success as it does today. Circulation (the selling of magazines themselves, rather than their advertising pages) currently offers more potential for revenue growth - and more career opportunities - than any other area of magazine publishing. This course focuses on marketing magazines to readers, covering all systems and methods that successful circulation marketing employs. Topics include: the magazine market in Canada, identifying markets for specific titles, key variables determining marketing success, subscription acquisition and renewals, bulk sales, controlled circulation uses and strategies, pricing, newsstand sales, database marketing, branding and ancillary revenue from readers, and the roles of magazine fulfillment, audits and modelling.

19.5 Hours

Fee: \$389.34

🔗 Layout Software for Magazine Editors

CDJN 204

Many editors are expected to have some knowledge of the InDesign page layout program used to edit and format text, place artwork, create page layouts and organize editorial production and copy flow. This course will provide you with the basics of the InDesign program. Instruction is fast-paced, hands-on, and is taught in a Macintosh computer lab.

Note: This course will be taught in a Macintosh computer lab.

Enrollment is limited to 16 students.

19.5 Hours

Fee: \$389.34

🔗 Magazine Production

CDJN 205

In addition to the fundamentals of print production, this course includes the basics of multi-purposing text and pictures for the Web, as well as creating digitally-formatted documents that will display on e-readers, tablets, and mobile devices. This course helps today's magazine production professional, acquire the skills to publish on multiple platforms, provides an overview of current magazine production practices, including how magazines are printed and bound, and how to schedule and budget magazine production. Students will learn about magazine formats, advertising delivery through ad portals, pre-media, printing process, and quality control across all platforms.

Note: This course will include a guided printing plant tour.

39 Hours

Fee: \$637.19

🔗 Creating Website Editorial

CDJN 206

From chats and blogs to streaming video, the editorial elements available for websites differ radically from those for ink-and-paper magazines. For magazine editors with website responsibilities, the trick is to use those things creatively to attract and hold readers while still maintaining the magazine's identity and mission. This course provides students with a valuable understanding of web tools and opportunities to workshop appropriate content for them. It also addresses the most common strategic, logistical, and business-related challenges that come with producing great magazine websites.

19.5 Hours

Fee: \$389.34

🔗 The Online Publishing Toolkit

CDJN 207

Print remains important, but online publishing is gaining ground, seeing some titles moving (or launching) wholly online. Today's publisher or editor needs to manage "print plus": a modern multi-platform, multi-media magazine. Find out how to deliver content to readers whenever, wherever, and however they wish. Learn about such vital tools as content management systems, mobile apps, "the cloud," digital versions and mobile editions, social media, micro sites, analytics, ad portals, and more.

19.5 Hours

Fee: \$370.80

🔗 Ad Sales on the Web

CDJN 208

Ad sales in the digital age requires traditional persuasive skills, but operating in a whole new world of design, accountability, and instant measurement. Digital delivery is a big part of the future of magazine publishing. Become familiar with the ways online advertising is priced, pitched, measured, designed, and packaged. Learn about rich text, standard ad formats and pricing, positioning your publication against such heavy-hitting competitors as Google, and exercising your creativity to meet online advertisers' needs. Understand the metrics that matter most to advertisers and agencies and how to package and deliver them.

19.5 Hours

Fee: \$382.85

MANAGEMENT

These courses and workshops introduce you to business basics: how companies are created, organized, and run to achieve their objectives. They will give you an excellent foundation, whether you plan to launch your own enterprise or simply want to understand the dynamics of a successful operation. Please note that many Ryerson courses have a management focus; consult the other listings in this calendar for specific areas of business expertise and specialization.

Entrepreneurship

CENT course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced, Design Management, Entrepreneurship and Small Business, Fashion Coordination and Styling, Retail Management

★ New Venture Startup **CENT 500**

Antirequisite(s): ENT 726 and RTA 913 (formerly BDC 913)

This introductory course is designed primarily for non-business students who are interested in starting a business of their own. Topics included assessing entrepreneurial potential, opportunity identification, market assessment, organizing, promoting, and financing the business, intellectual property, buying an existing business or considering a franchise. Students will be expected to work on developing a business plan. This course is not available to programs within the Ted Rogers School of Management, with the exception of Retail Management.

39 Hours Fee: \$588.83

NEW

★ Small-Business Management **CENT 505**

Prerequisite(s): BSM 200

This course takes an interdisciplinary perspective on the challenges of managing in a small-business environment. It is designed for students who plan to join a small or medium-sized enterprise company and want to have an improved understanding of the process by which things get done in small businesses that lack the resources and capabilities of large corporations. Topics include elements of managing high growth rates, family business, outsourcing, internships and leveraging external partnerships, guerilla marketing techniques, cash flow management, bootstrap financing, government programs, and corporate governance in a small business. This course is not available to programs within the Ted Rogers School of Management.

Note: BSM 200 may be waived as a prerequisite if the student has specific professional experience. See the section on prerequisites for more information. Registered certificate program students without the prerequisites wishing to take this course should contact The Chang School at ce@ryerson.ca for more information.

39 Hours Fee: \$588.83

★ Entrepreneurial Behaviour and Strategy **CENT 526**

This foundation course is designed to stimulate the student's interest in entrepreneurship, thereby cultivating the entrepreneurial spirit. By means of case studies, articles, videos and presentations, students will have the opportunity to learn about many prominent entrepreneurs who have demonstrated commitment, passion, risk-taking, strategic thinking and implementation, and the ability to develop core competencies as they create and grow their successful enterprises. Various topics in entrepreneurship will be introduced as a result.

39 Hours Fee: \$588.83

☆ Identifying Opportunities **CENT 601**

This course examines the process of opportunity identification for both start-up and existing business environments. It is designed to cultivate the mindset and skills required for students to engage in opportunity identification activities and make them part of their daily regiment in their personal and professional lives. The entrepreneurial process begins with the pursuit of a perceived opportunity. As such, the ability to identify a valid opportunity is paramount to the field of entrepreneurship.

39 Hours Fee: \$588.83

🌐 Multicultural Opportunities **CZEN 300**

This course examines the process of multicultural opportunity identification for both start-up and existing business environments. It is designed to cultivate the mindset and skills required for students to engage in opportunity identification activities and make them part of their daily regiment in their personal and professional lives. The entrepreneurial process begins with the pursuit of a perceived opportunity; as such, the ability to identify a valid opportunity is paramount to the field of entrepreneurship.

39 Hours Fee: \$599.72

🌐 Multicultural Venture Startups **CZEN 500**

Prerequisite(s): CENT 526 and CMKT 310

This course will focus on the distinct challenges facing those individuals who are new to Canada as well as entrepreneurs who would like to target a particular multicultural niche market. The process of business planning will be featured. Students will be required to develop a business plan for a new venture targeting selected multicultural cohorts.

39 Hours Fee: \$599.72

Global Management

Related certificate(s): Business Decision Analysis, Business Management, Entrepreneurship and Small Business, Ethics, Facility Management, Global Management Studies, Retail Management, Strategic Marketing

★ Introduction to Global Management **CGMS 200**

This course introduces the concepts and complexities of the contemporary business environment with an emphasis on competitiveness, quality, and the main functional areas of management: Planning, Organizing, Controlling, and Leadership. The course recognizes the global context within which managerial decisions are made. Topics include: origins of management, forms of business ownership, entrepreneurship and intrapreneurship, organizational structure, strategy, operations management, international business, social and ethical issues. Instruction will be provided for effective presentations and library research skills. A globally oriented management simulation may be used. (Formerly MGT 200)

39 Hours Fee: \$668.40

★ Operations Management**CGMS 401**

Prerequisite(s): (CGMS 200 or MGT 200 or MGT 121) and (CQMS 102 or CQMS 204)

Production and operations management are activities that relate to the creation of goods and services through the transformation of inputs into outputs. Topics include: What is production and operations management; productivity, competitiveness and strategy; quality management; product and service design; process selection; design of work systems; learning curves; inventory management: MRP, JIT; maintenance and reliability; project management: P.E.R.T. and C.P.M. (Student groups are required to visit a manufacturing or service facility, produce a report, and do a formal presentation to the class covering the course topics investigated during the tour.) (Formerly MGT 401)

39 Hours

Fee: \$588.83

★ Introduction to Managerial Economics**CGMS 402**

Prerequisite(s): [(CGMS 200 or MGT 200 or MGT 121) and (CQMS 102 or CQMS 204) and CQMS 202] or Direct Entry

A primary emphasis of managerial economics is the application of economic theory and methodology to the practice of business management and decision making. Students will learn how economic tools can be applied to achieve business goals and to address managerial challenges. Topics include: optimization, risk analysis, demand theory and estimation, production and cost theory, market structure and pricing practices. (Formerly MGT 402)

39 Hours

Fee: \$588.83

★ Quality Management**CGMS 422**

Prerequisite(s): [(CQMS 102 or CQMS 204) and CQMS 202] or Direct Entry

Quality has become a critical component of many successful businesses. The quest for quality has led to the emergence of a set of analytic tools that help identify, study and improve business processes. The course examines the development of these management tools and the role that they play in continuous improvement activities. In particular, the student will become familiar with problem solving strategies that begin with a structured qualitative analysis of business situations, incorporate quantitative management methods and lead to well-reasoned decisions. Appropriate software support will be used. (Formerly QMS 402).

39 Hours

Fee: \$588.83

★ Project Management**CGMS 450**

Prerequisite(s): CGMS 401 or MGT 401 or MGT 100 or Direct Entry

This course focuses on how projects contribute to the strategic goals of the organization. The linkages for integration include the process of selecting projects that best support organizational strategy and all the technical and managerial processes to complete those projects. The goals for prospective project managers are to clearly understand the role of the project in their organizations and to master project management tools/techniques and interpersonal skills necessary to orchestrate projects to completion. (Formerly MGT 806)

39 Hours

Fee: \$588.83

★ Management Control**CGMS 502**

Prerequisite(s): [(CACC 406 or CACC 410) and (CGMS 401 or MGT 401)] or Direct Entry

A main course objective is the acquisition of essential managerial skills for achieving overall organizational goals. A management control system embraces all aspects of corporate operations; thus students should acquire prior knowledge in organizational behaviour, economics, accounting, finance, and marketing. Major areas discussed: organizational structures and behaviour, management control structures; management planning and control processes. The teaching mode is lecture plus a case seminar. Students must be prepared to strongly defend their points of view during case discussions. Student evaluation consists of short objective tests, individual written case reports, group case presentations, individual participation, and a final exam (essay type). (Formerly MGT 502)

39 Hours

Fee: \$588.83

★ International Marketing**CGMS 522**

Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry

Basic marketing principles are applied to world markets. Emphasis in the course is given to the analysis of economic, political, cultural and social factors. This course also covers conditions relevant to the implementation of marketing strategies in world markets. (Formerly IBS 522 and MKT 522)

39 Hours

Fee: \$588.83

★ Issues in Operations Management**CGMS 528**

Prerequisite(s): CGMS 401 or MGT 401 or Direct Entry

This course will provide an evolving survey of leading-edge topics in operations management. Current topics include: world class manufacturing, manufacturing as a competitive weapon, competing on quality, competing on productivity, competing on new products and processes, planning and implementing operations strategies over time, health and safety as a competitive advantage. Student groups will be required to prepare case studies and a major paper. (Formerly MGT 528)

39 Hours

Fee: \$588.83

★ Business-to-Business e-Commerce**CGMS 550**

Some of the most significant changes caused by electronic commerce are in the way that businesses trade with one another. This course will cover the key elements needed to operate in the virtual business marketplace, with special emphasis on the impacts on the supply chain. Topics covered will include issues in procurement, logistics and manufacturing, as well as an examination of the trading communities that are emerging as players in this new marketplace. (Formerly MGT 550)

39 Hours

Fee: \$588.83

★ International Economics**CGMS 601**

Prerequisite(s): (CECN 104 and CECN 204) or Direct Entry;
Antirequisite(s): CECN 607, CECN 707

This is a one semester course introducing students to the theory of international economics and its applications to business. The course examines why nations trade and why at the same time many countries try to limit trade by introducing trade barriers. It looks at the role of the WTO and Canadian trade policy. The course also introduces the theory of exchange rates and looks at issues surrounding international policy coordination. (Formerly IBS 601)

39 Hours

Fee: \$645.06

★ The North American Business Environment**CGMS 690***Prerequisite(s): CGMS 200 or MGT 200 or Direct Entry*

This course provides an overview of the North American business environment. It examines the cultural, political and economic environments in Canada, the US and Mexico. Trade and economic integration issues are discussed including an assessment of the North American Free Trade Agreement (NAFTA) and the potential impact on these three countries of the proposed Free Trade Area of the Americas (FTAA). The course will also introduce students to the key institutions that impact trade and business activities in North America and will examine the strategies used by foreign multinational corporations in penetrating North American markets. Current and controversial issues such as trade in bulk water and a continental energy plan will also be covered. The long run international competitive position of North American firms is also examined in this course. GMS 690 is designed to provide a suitable comparative framework for understanding other regional markets and will be particularly useful for international and exchange students.

39 Hours

Fee: \$645.06

★ The Asian Business Environment**CGMS 691***Prerequisite(s): CGMS 200 or MGT 200 or Direct Entry*

This course examines cultural, demographic, political and economic issues that shape the Asian business environment. The region as a whole is profiled but particular attention is paid to China and India as emerging super powers. The importance of foreign direct investment to the development of this region is underscored as well as the emergence of Asian multinationals and their approach to outward direct investment. The challenges encountered by Western firms in penetrating Asian markets are discussed in detail. Consideration is given to the role of government in business transactions in this part of the world and the need for innovative strategies when dealing with Asian business partners. Special topics will include globalization versus sustainable development and the role of Asian countries in global outsourcing.

39 Hours

Fee: \$645.06

★ The European Business Environment**CGMS 692***Prerequisite(s): CGMS 200 or MGT 200 or Direct Entry*

This course focuses on European economic integration and the implications for business. The nature of the European business environment is examined including a discussion of the economic and political institutions, culture and demographic trends. Market size, growth, trade and investment prospects for the Euro zone countries and the UK are examined. The foreign market entry strategies of multinational corporations active in this region will also be discussed. The course will also consider the prospects for Eastern Europe and the challenges these countries face in implementing free enterprise market reforms. Implications for EU enlargement are discussed.

39 Hours

Fee: \$645.06

★ The Middle Eastern Business Environment**CGMS 695***Prerequisite(s): CGMS 200 or MGT 200 or Direct Entry*

This course examines the business environment and the complex cultures of this highly misunderstood region. The course focuses on the impact of religion, politics, culture and history on the prospects for conducting business in the Middle East. The impact of Sharia banking on business is a particular focus of this course. Specific countries in the Middle East are profiled to underscore intra-regional differences in the importance of religious, political and regulatory factors. Foreign market entry strategies appropriate to Islamic countries are also presented using Western firms as case studies.

39 Hours

Fee: \$645.06

★ International Trade**CGMS 723***Prerequisite(s): CGMS 401 or MGT 401 or CHTF 506 or Direct Entry*

An analysis of the important business function of international trade. After a review of the importance of exports for Canada's income and employment needs, students focus attention from an export manager's perspective, on such topics as export organization, research, and pricing, export documentation and correspondence; export marketing strategies; government and private export assistance; export finance; marine insurance and export shipping. This course also includes an examination of international databases and involves direct company field research. Students who have taken MKT 522 or IBS 522 should have a stronger foundation for applying this course. This course is intended as a fourth year course. (Formerly IBS 723 and MGT 723)

39 Hours

Fee: \$588.83

★ Management of International Enterprise**CGMS 724***Prerequisite(s): CGMS 401 or MGT 401 or CHTF 506 or Direct Entry*

An analysis of the management policies of the multinational business corporation in Canada and the world. Topics covered: the evolution of the multinational corporation, its organization, structure, planning and goals. Also covered are business strategies including marketing, production, logistics, technology, personnel and labour relations, finance, investment and acquisition, and ownership, concerns of host countries including Canada, and policies for host governments. Lectures, discussion, and case problems. (Formerly IBS 724 and MGT 724)

39 Hours

Fee: \$588.83

★ Ethics and Regulation of Int'l Bus**CGMS 802***Prerequisite(s): CGMS 401 or MGT 401 or MGT 100 or Direct Entry*

This course examines the vital role that ethics plays at all leadership levels within a company. Students will discover the importance of instilling ethical values as a key to long term success. Exposure to thought-provoking cases and literature will heighten student awareness of the need to develop strong ethical leadership in dealing with customers, the community, and employees. Students will also be exposed to the critical role of governments in regulating international business behaviour. (Formerly MGT 802)

39 Hours

Fee: \$588.83

★ Manufacturing Management**CGMS 805***Prerequisite(s): (CGMS 401 or MGT 401) or Direct Entry*

This course will focus on manufacturing management techniques and manufacturing technology. Current topics include: quality of design, systems for eliminating defects, simplified production planning and control systems, managing the supply chain, activity-based costing and performance measurement-making "bean-counting" relevant. The students will learn decision models and management techniques for evaluating technological options used by flexible manufacturing operations to sustain competitive advantage. The course will also include cases from major manufacturing industries such as automotive, plastics, and apparel. (Formerly MGT 805)

39 Hours

Fee: \$588.83

International Business

All CIBS course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Global Management Studies

🔗 Practicum in International Business **CZIB 100**

Prerequisite(s): CCMN 443, IBS 522, IBS 723, CIBS 800, and CMHR 700

Students will work with a client in business, either in Canada or abroad, in order to study and to document an international business project in an actual organizational setting. They will work with a faculty advisor and an on-site supervisor. Students will plan the project with the faculty advisor. Students may conduct the project at their current place of business. If this is not possible, they may select a suitable client organization. Although the faculty advisor will assist in any way possible, it is the responsibility of the student to find a suitable client and project.

39 Hours

Fee: \$713.98

Management

All CGMS course fees include a \$2.00 fee for materials. For further information, see Material Fees.

Foundations of Management Workshop **CZMN 110**

Prerequisite(s): Department consent

This workshop is designed to provide nonbusiness degree graduates with skills to optimize success in the Foundations of Management Course Series offered through the Ted Rogers School of Management. Classes will focus on essential business skills including numeracy, statistics, business communications, business case writing, and the use of selected business software applications.

20 Hours

HST included

Fee: \$714.88

MARKETING

There is scarcely any field of professional activity that does not require the expertise of a skilled and knowledgeable marketing specialist. The following courses can help you develop broad-based or industry-specific marketing skills, either to upgrade your present qualifications or as preparation for a new career.

Marketing

All CMKT course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Business Decision Analysis, Business Management, Design Management, Entrepreneurship and Small Business, Facility Management, Fashion Coordination and Styling, Global Management Studies, Retail Management, Strategic Marketing

★ Principles of Marketing **CMKT 100**

Antirequisite(s): CINP 912

This course introduces students to the fundamental building blocks of marketing: the theories, principles and concepts of market behaviour; marketing metrics and financial marketing; and the skills to leverage this knowledge with IT tools to execute marketing strategies. Students begin to develop the quantitative and qualitative skills and knowledge to make effective and ethical decisions in both the consumer and business markets. Topics include financial marketing, the marketing mix, environmental scanning, segmenting, targeting and positioning. Students planning to enter the Marketing Management Major must obtain a 2.67 GPA (B-) in this course.

39 Hours

Fee: \$749.03

★ Marketing Metrics and Analysis **CMKT 300**

Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry

This course provides students with state-of-the-art contemporary demand and supply marketing metrics and analytic tools, such as marketing research, share of mind, margins and profits, product, sales force, and channel management, advertising media and web metrics to integrate marketing performance with the firm's strategic thrusts and corporate finances. Students are introduced to the case method as a model for critically analyzing situations and developing evidence-based, ethical decision-making skills using marketing theory and marketing metrics. (No transfer credit ruling).

39 Hours

Fee: \$588.83

★ Understanding Consumers and the New Media **CMKT 400**

Prerequisite(s): CMKT 300;

Antirequisite(s): CMKT 502, CRMG 302

The online world is becoming more social and therefore more like the offline world. This shift has changed the nature of marketing from one-way mass communication to a conversation. This course uses social science theories to understand consumers and design effective marketing strategies with an emphasis on digital media applications. This theoretical course is fundamental to analyzing, interpreting, and understanding the personal, psychological, social, and economic aspects of the marketing environment. (No transfer credit ruling).

39 Hours

Fee: \$588.83

★ Marketing Research*Prerequisite(s): CMKT 300*

This course examines the role of marketing research in making strategic marketing decisions through the application and use of the scientific method and traditional quantitative and qualitative marketing research tools. Students hone their quantitative skills by developing a deeper understanding of the importance of large datasets, Web analytics and secondary analysis, and the role of financial and other marketing metric data in evidence-based and ethical decision-making. Group project work develops communication and teamwork skills. (No transfer credit ruling).

39 Hours

CMKT 500

Fee: \$588.83

★ Effective Persuasion*Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry*

This course covers the fundamentals of the sales process and personal persuasion in the business world. Students work individually and in groups to discuss the theories and practice of effective techniques for selling themselves, their ideas and/or their products to prospective employers and/or customers. Students participate in discussions and role playing to develop an ethical understanding of customer interface, and high level communication and interpersonal skills, which are the cornerstones for successful selling. (No transfer credit ruling).

39 Hours

CMKT 504

Fee: \$588.83

★ Innovations in Marketing*Prerequisite(s): CMKT 300 and CMKT 400*

This course focuses on understanding current issues, trends and challenges facing marketers from the perspective of marketing theory, marketing metrics, and IT tools and capabilities. Issues include brand equity, the social web, advertising and communication, business to business marketing, “green” marketing, marketing and public policy and product/service innovation.

39 Hours

CMKT 510

Fee: \$588.83

★ Integrated Case Analysis*Prerequisite(s): CMKT 400 or CRMG 302*

This course provides an opportunity for students to integrate skills and knowledge already learned about marketing theory and principles, marketing metrics, and the strategic opportunities afforded by technology. Using comprehensive cases that reflect a variety of marketing issues, situations and challenges, students enhance their written and oral communication skills through case analysis and presentations conducted in teams. The course focuses on enhancing analytic, synthesis, integration and research skills to arrive at an evidence-based recommendation. (No transfer credit ruling).

39 Hours

CMKT 600

Fee: \$588.83

★ Business Intelligence/Decision Modeling*Prerequisite(s): CMKT 300 and CMKT 500*

This quantitative course advances and enhances skill with marketing metrics through experience with relational databases, data preparation, data analysis, predictive modeling, and common software suites. Using case studies and spreadsheets, students gain insight into when and how to apply data modeling techniques, such as linear regression, logistic regression, decision trees, neural analysis and customer clustering, and their role in strategic decision-making and market plan development. (No transfer credit ruling).

39 Hours

CMKT 700

Fee: \$588.83

★ Advanced Marketing Management*Prerequisite(s): CMKT 300 and CMKT 600*

This advanced course provides students with a deep understanding of the integration of all marketing functions, practices and theories in order to address strategic problems and challenges. Case studies, class discussions and small group projects with external clients allow students to apply their theoretical knowledge, and employ their IT and quantitative skills, while experiencing real business situations and the challenges of developing effective marketing strategies in a dynamic business environment. (No transfer credit ruling).

39 Hours

CMKT 702

Fee: \$602.62

★ Marketing in the Service Industry*Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry*

This course focuses on the unique challenges faced by Canadian-based service industry companies, such as banks, restaurants, airlines, hotels and insurance. It explores marketing strategies utilized by these firms to improve customer retention, increase customer value and outperform competitors. Students work in groups to complete a marketing plan for a new or existing service, either B2B, B2C, government or not-for-profit by integrating and applying their knowledge of marketing functions and by employing both quantitative and qualitative analytical tools. (No transfer credit ruling).

39 Hours

CMKT 723

Fee: \$588.83

★ Assessing/Managing Market Opportunities*Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry*

This course examines the creative process of creating new ideas for products and services, the business case that must be made to take an innovation to market, and the strategic formulation and implementation necessary to manage a product for success. Students use both quantitative and qualitative tools to analyze the market, the barriers to entry and the implementation challenges that must be addressed to turn an innovative idea into a marketing success. (No transfer credit ruling).

39 Hours

CMKT 730

Fee: \$588.83

★ Competitive Intelligence*Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry*

This course presents a comprehensive framework for analyzing competition and developing successful marketing strategies. Students develop advanced skills in quantitative and qualitative tools and techniques in order to analyse, predict and understand a company's relative position, the general market situation, the future of the industry, and the opportunities, threats and environmental forces that may impact the future success of an industry, a company, a product or a service. (No transfer credit ruling).

39 Hours

CMKT 731

Fee: \$588.83

★ Sport Marketing Concepts and Strategy*Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry; Antirequisite(s): MKT 827*

This course exposes students to the fundamental concepts and strategies related to marketing in sport and recreation organizations. The course adopts an applied approach and emphasizes university/college, technology, sport sponsorship, focusing on the practical application of theory. Topics include the Canadian sport industry, sport brands, media and distribution, promotion and events.

39 Hours

CMKT 828

Fee: \$588.83

★ International Sport Marketing

CMKT 829

Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry;
Antirequisite(s): MKT 827

This course exposes students to the concepts and theories related to marketing in international sports organizations. The course adopts an applied approach and emphasizes both professional and Olympic sport, focusing on the practical application of theory. Topics include sport agents, marketing world sporting events, financing, marketing sport facilities, ambush marketing, events sponsorship, and anti-doping.

39 Hours

Fee: \$588.83

★ Applied Research Project

CMKT 850

Prerequisite(s): CMKT 100 or CHTM 302 or Direct Entry

Students work in groups to complete a research project for an organization, association or company. The project includes primary and secondary research that addresses the client's problems and issues and identifies future opportunities through a set of actionable recommendations. There is a strong emphasis on interpersonal skills as students manage their project deliverables and their relationship with the client.

39 Hours

Fee: \$588.83

MATHEMATICS

The mathematics courses outlined here will introduce you to new concepts and problem-solving skills that are relevant to a variety of personal and professional interests.

Mathematics

Related certificate(s): Data Analytics, Big Data, and Predictive Analytics, Financial Mathematics Modeling

Transcendental Functions

CKMT 101

Students will investigate the properties of polynomial, rational, radical, logarithmic, exponential, and trigonometric functions with the applications in the rate of change and graphing.

Note: An Academic Bridging Course. Meets the Grade 12 MHF4UI (Advanced Functions) requirement for admission to a Ryerson program. This course can be taken concurrently with CKMT 102. Please contact Undergraduate Admissions and Recruitment for details.

52 Hours

Fee: \$789.26

Advanced Calculus and Vectors

CKMT 102

Students will solve problems involving geometric and algebraic representation vectors in three-dimensional spaces and will explore the equation and graph of lines and planes related to vectors. Students will also study the derivatives of various types of functions and its applications in optimizations and graphs.

Note: An Academic Bridging Course. Meets the Grade 12 MCV4UI (Calculus and Vectors) requirement for admission to a Ryerson program. This course can be taken concurrently with CKMT 101. Please contact Undergraduate Admissions and Recruitment for details.

52 Hours

Fee: \$789.26

Advanced Data Management

CKMT 103

This course broadens students' understanding of mathematics as it relates to managing data. Students will apply methods for organizing large amounts of information; solve problems involving probability and statistics; and carry out a culminating project that integrates statistical concepts and skills. Students will also refine their use of the mathematical processes necessary for success in senior mathematics.

Note: An Academic Bridging Course. Please contact Undergraduate Admissions and Recruitment for details.

52 Hours

Fee: \$789.26

NEW

FRM Level I Exam Prep

CKMT 104

This course covers the mathematical aspects of all four topics involved in the Level I FRM Exam. Topics covered are Capital Asset Pricing Model and the Arbitrage Pricing Theory within foundations of risk management; inferential statistics, multiple regression, EMWA models, GARCH models, and volatility term structures in quantitative analysis; financial products like derivatives on fixed income securities and on commodities and foreign exchange risk; and coherent risk measures, operational risk, and stress testing in risk evaluation models.

39 Hours

HST included

Fee: \$880.25

<p>☆ Linear Algebra CMTH 108</p> <p>Systems of linear equations, determinants, vectors, geometry, linear transformations, matrices and graphs, number fields, applications.</p> <p>52 Hours Fee: \$1013.84</p>	<p>★ Calculus and Computational Methods II CMTH 310</p> <p><i>Prerequisite(s): CMTH 207</i></p> <p>Integration techniques, improper integrals, sequences, infinite series, power series, partial derivatives, maxima and minima.</p> <p>52 Hours Fee: \$941.70</p>
<p>☆ Discrete Mathematics I CMTH 110</p> <p>This course covers the fundamentals of discrete mathematics with a focus on proof methods. Topics include: propositional and predicate logic, notation for modern algebra, naive set theory, relations, functions and proof techniques.</p> <p>52 Hours Fee: \$1094.46</p>	<p>★ Probability and Statistics II CMTH 404</p> <p><i>Prerequisite(s): CMTH 304 or CMTH 380;</i> <i>Antirequisite(s): MTH 480</i></p> <p>Topics include: Multivariate Distributions. ANOVA one- and two-way. Simple linear regression models; multiple regression analysis including variable selection techniques; regression diagnostics, goodness of fit test. Non-linear regression. A statistics computer package may be used in this course.</p> <p>39 Hours Fee: \$593.72</p>
<p>★ Mathematics for Professional Programs CMTH 125</p> <p>Basic Algebra, finite series, coordinate geometry, trigonometric functions, radicals and exponents, exponential and logarithmic functions, and a basic introduction to statistics.</p> <p>52 Hours Fee: \$1094.46</p>	<p>★ Introduction to Stochastic Processes CMTH 500</p> <p><i>Prerequisite(s): CMTH 404 or MTH 480 or CECN 702</i></p> <p>Topics include: Measure and probability. Conditional expectation. Discrete time martingales. Markov Processes. Martingales in continuous time and Brownian motion. Stochastic integration and introduction to stochastic differential equations. Poisson process.</p> <p>39 Hours Fee: \$607.51</p>
<p>NEW</p> <p>★ Modern Mathematics I CMTH 131</p> <p>Limits and continuity. Differentiation with applications. Newton-Raphson method. Integration; the Fundamental Theorem of Calculus.</p> <p>52 Hours Fee: \$1094.46</p>	<p>★ Numerical Analysis I CMTH 501</p> <p><i>Prerequisite(s): CMTH 231 or (CMTH 108 and CMTH 310);</i> <i>Antirequisite(s): CMTH 510</i></p> <p>Errors and floating point arithmetic. Solutions of non-linear equations including fixed point iteration. Matrix computations and solutions of systems of linear equations. Interpolation. Finite difference methods. Least squares fit. Cubic spline interpolation. Numerical integration. Numerical solution of ordinary differential equations. Taylor series method. Euler method.</p> <p>52 Hours Fee: \$887.59</p>
<p>★ Calculus and Computational Methods I CMTH 207</p> <p>Calculus of functions of one variable and related numerical topics. Derivatives of algebraic, trigonometric and exponential functions. Differentiation techniques and applications of derivatives. Techniques of integration, numerical integration.</p> <p><i>Note: It is recommended that students take OAC or Grade 12 U Calculus prior to taking this course.</i></p> <p>52 Hours Fee: \$941.70</p>	<p>★ Computational Methods In Mathematics CMTH 600</p> <p><i>Prerequisite(s): CMTH 501 or CMTH 510</i></p> <p>Topics include: Statistical simulation of random variables and stochastic differential equations. Numerical solutions for partial differential equations, finite differences and finite-element methods. Optimization methods: linear programming, the simplex method and non-linear programming. The Matlab software will be used in assignments as a numeric and symbolic tool.</p> <p>52 Hours Fee: \$887.59</p>
<p>NEW</p> <p>★ Modern Mathematics II CMTH 231</p> <p><i>Prerequisite(s): CMTH 131</i></p> <p>Implicit functions and differentiation. Related rates, concavity, inflection points and asymptotics. Optimization. L'Hôpital's rule. Applications of integration. Techniques of integration. Numerical integration. Functions of 2 or more variables, partial derivatives.</p> <p>52 Hours Fee: \$1094.46</p>	<p>★ Probability and Statistics I CMTH 304</p> <p><i>Prerequisite(s): CMTH 310 or CMTH 240 or CMTH 231</i></p> <p>Topics include: Brief Introduction to Statistics. Description of Numerical Data. Elements of Probability Theory. Discrete Probability Distribution. (Hyper-geometric, Binomial, Poisson). Normal Distribution and its applications. Sampling Distributions. The t-distribution and the X² distribution. Confidence Interval and Hypothesis Testing concerning the mean, variance and proportion of a single population. Confidence Interval and Hypothesis Testing concerning the mean and proportion of two populations, the F-distribution. SAS will be used in this course.</p> <p>52 Hours Fee: \$887.59</p>

NEW**★ Data Analytics: Advanced Methods****CMTH 642***Prerequisite(s): Department consent*

This course builds on the previous Basic Methods course and covers more advanced concepts including classification and clustering algorithms, decision trees, linear and logistic regression, time series analysis, and text analytics. The course will provide applied knowledge on how to analyze large scale network data produced through social media. In this context topics include network community detection, techniques for link analysis, information propagation on the web and information analysis of social media.

Note: Computer Requirements: Students in the Data Analytics, Big Data, and Predictive Analytics certificate should consult the attached flyer for computer requirements.

39 Hours

Fee: \$887.59

★ Financial Mathematics I**CMTH 700***Prerequisite(s): CMTH 500*

Topics include: Introduction to the fundamental topics in financial mathematics including fixed income instruments and derivative pricing. Stochastic calculus, martingales and Ito's formula are the main modeling tools used in the course. Pricing and hedging for a wide range of option contracts and future derivatives are developed for several models and by means of analytical and numerical techniques.

52 Hours

Fee: \$887.59

★ Financial Mathematics II**CMTH 800***Prerequisite(s): CMTH 700*

This course covers fixed income derivatives and the quantitative aspects of risk and portfolio management in modern finance. It introduces single factor interest rate models and pricing and covers analysis of risk measures and their properties, market, credit risk and an overview of other types of risks. The course also develops portfolio optimization techniques. Case studies and preparation for financial certification programs (FRM and PRM) are also included.

52 Hours

Fee: \$887.59

MIDWIFERY

Midwifery

Related certificate(s): Aboriginal Knowledges and Experiences

★ Aboriginal Childbearing**CMWF 108**

This course investigates the realities and experiences of Aboriginal women and families during the childbearing year and how they are shaped by Aboriginal ways of knowing, being and living as well as the intergenerational effects of colonialism. Through a decolonized lens, students examine issues affecting health and wellness balanced with critical analysis around the role of Aboriginal midwives in their communities, working as allies, and providing culturally secure care and support.

39 Hours

Fee: \$608.57

MINING MANAGEMENT

Mining is an incredibly diverse sector, with more than 120 occupations ranging from skilled trades to high-tech professionals, including managers, financial analysts, environmental coordinators, and community developers. There is an urgent need in the mining industry for employees who have practical as well as theoretical skills such as project management, and who understand and have been exposed to real-world cases and simulations. This program will prepare students to work in a global environment and use cross-disciplinary skills to span the disconnects between science and business and community development and business.

Mining Management

Related certificate(s): Mining Management

🌀 CSR, Sustainability, and Mining

CZMM 403

This course addresses the triumverate of the sustainability model - economy, society, and environment - in the context of corporate social responsibility in the mining sector. Students will be introduced to the challenges facing mining firms in balancing the economic sustainability of the firm with the need for long-term economic, social, and environmental benefits for the community in which they operate.

39 Hours

Fee: \$783.19

🌀 Exploration and Development Operations

CZMM 411

Prerequisite(s): CZMM 403 and CZMM 420

The principle emphasis of exploration and development operations is the application of operations management theory (productivity, quality management, project management) to the mining sector. Topics include exploration methods, drilling engineering, reserves estimation and appraisal, production operations, safety and the environment, the role and importance of sustainable development in extractive sector operations, abandonment operations, and site rehabilitation. This course is intended for students who wish to be more familiar with the operations of extractive sector firms and will highlight operations from mining, oil and gas, and renewable energy projects.

39 Hours

Fee: \$783.19

🌀 Resource Valuation, Financing, and Investor Relations

CZMM 420

This course integrates skills in financial statement analysis, economic analysis, quantitative analysis, taxation, and the valuation of equity and fixed income securities within the context of the mining sector. Topics include interrelation of economic and market conditions, security valuation techniques, specific requirements of individual and institutional investors, development of suitable investment policies, ethical investing, construction of multi-asset portfolios, implementation of the plan, monitoring the profile, responding to changes, and measurement and evaluation of performance.

39 Hours

Fee: \$783.19

🌀 Risk Management and the Mining Sector

CZMM 421

Prerequisite(s): CZMM 403 and CZMM 420

This course addresses the design and operation of a risk management system within the context of the mining sector. Management, investment, and hedging strategies are discussed, with specific consideration given to the measure of market risk, including commodity, credit, operational, environmental, and liquidity risks. The functional role of risk management professionals within an extractive sector firm is also reviewed, with emphasis on their function as designers and implementers of risk management policies, procedures, and practices.

39 Hours

Fee: \$783.19

🌀 Mining Management Accounting

CZMM 422

Prerequisite(s): CZMM 403 and CZMM 420

Designed for mining sector majors who wish to have a greater foundation in accounting, this course introduces basic management accounting concepts to students in the context of the mining sector. Topics covered provide a good balance between the concepts and procedures used in accumulation and use of data by management accountants to facilitate planning and decision-making. Mining sector cost behaviours and their implications for planning, reporting to management, ethical accounting practices, and control are stressed.

39 Hours

Fee: \$783.19

🌀 Mining in the Global Environment

CZMM 430

Prerequisite(s): CZMM 403 and CZMM 420

Intended for students who wish to expand their knowledge of mining management in an international setting, this course provides an overview of the global mining business environment. The political, economic, social, technological, environmental, and legal characteristics of the remote environment in which mining companies operate are addressed. There will be particular emphasis on the principles of sustainable development in international operations.

39 Hours

Fee: \$783.19

🌀 Corporate Strategy in the Mining Sector

CZMM 500

Prerequisite(s): Department consent

This capstone course addresses the practice and concepts of strategic management in the extractive sector using appropriate theoretical models and frameworks. Students examine the concept of strategy creation within the sector and the manner by which external and internal drivers influence strategic choice and implementation. Interwoven throughout the course are the concepts of stakeholder engagement, ethics, and corporate responsibility.

39 Hours

Fee: \$783.19

NEW MEDIA

The following series of courses provides instruction that is relevant to new media production in business, in the communications industry, in architecture and interior design, and in education and the arts. Courses explore production concepts and the creative possibilities of composition, computer imaging, and many other aspects of new media. **Equipment/Facilities Use:** Please note that equipment and facilities use outside of class time will not be provided.

Combined Media

Related certificate(s): Design for Arts and Entertainment, Digital Art Production, Film Studies, Image Arts (Film Studies or Photography Studies)

★ Visual Studies I **CMPC 101**

This course will deal with the fundamentals of expression and interpretation in the visual arts. Students will undertake applied exercises related to the elements and principles of composition and design. Completed projects will be critiqued with reference to traditional and contemporary design issues. The course's main setting is the studio, where a variety of materials and approaches are explored.

Supplies and materials to be purchased by the student: A list of supplies and materials required will be given to students after the first class. Cost approximately \$70.

39 Hours Fee: \$655.25

★ Art and the Classical Tradition **CMPC 103**

This course examines the evolution of Western Art from its origins in pre-historic times to the early 19th century. Issues and context considered include: aesthetics and antiquity; classical revivals of the Renaissance; Neo-Classicism; art in the service of religion in Medieval and Baroque Europe; and the birth of individualism during the Enlightenment and the Romantic periods. (Formerly first half of MPC13AB).

39 Hours Fee: \$655.25

★ Concepts and Theories **CMPC 201**

This lecture course introduces the concepts and theories that animate visual work in all media and forms, providing a foundation for students embarking upon their studies in the culture industries. It offers theoretical, historical and cross-disciplinary perspectives, and is designed to establish a framework of knowledge that will enhance understanding of the cultural and technical power and limitations of various media.

39 Hours Fee: \$655.25

★ Art in the Modern World **CMPC 203**

Prerequisite(s): CMPC 103

This course provides a contextual survey of 20th century art in the West from its roots in 1900s to its proliferation of styles in the 1960s. The modernist ideologies inherent in movements such as Conceptualism, Feminism and Postmodernism will also be examined, as will the impact of burgeoning digital technologies. (Formerly second half of MPC13AB).

39 Hours Fee: \$655.25

Media Studies

Related certificate(s): Aboriginal Knowledges and Experiences, Digital Art Production

NEW

★ Graphic Design **CFPN 534**

This is an advanced workshop in two-dimensional design problems with an emphasis on typography and layout and their interaction with and within imagery. Exercises are given in artwork preparation for combination with type, graphic and experimental design elements. The visual language of graphics is the principal focus of the course.

39 Hours Fee: \$642.52

NEW

★ Interaction Design **CFPN 535**

From an applied design perspective, this course will allow advanced students to explore the new possibilities and challenges for visual and virtual media. Through the construction of new media objects, students will explore creative applications of communication models and paradigms, including the design implications of alternative modalities and practices with the changing cultures of presentation-reception.

39 Hours Fee: \$642.52

NEW

★ Immersive Imaging **CFPN 537**

The objective of this course is to introduce students to the process of developing projects using a cross-platform approach to the fundamental principles of immersive imaging. The course offers an overview of the history of immersive imaging techniques such as stereography, augmented reality, and 360-degree cinema. This is a hands-on approach to production and post-production of immersive imaging utilizing sources from still photographs, motion graphics, and motion picture stereography.

39 Hours Fee: \$642.52

★ Design for Mobile **CFPN 542**

This course allows students to explore ideas, applications, and projects in the context of interaction and data-driven work, specifically in the context of the mobile web. Students are encouraged to develop collaborative project ideas, and will spend the course expanding their toolsets in several areas, including database driven applications, connecting to data sources via APIs, multimedia, and geo-location.

39 Hours Fee: \$642.52

NEW

★ History of Animation **CNPF 566**

Prerequisite(s): MPF 290 or enrolled in Image Arts program

This course offers a wide-ranging panorama of the first 100 years of animation, drawing upon a variety of national traditions, production methods and technological developments to contextualize study. The course examines competing imaginaries and production techniques. The course covers cel and digital animation, silhouette animation, puppetry, stop motion, rotoscoping, rotoshopping, computer-generated imaging and motion capture. Students will be exposed to a variety of critical discourses in order to engage with the animated works introduced each week.

39 Hours Fee: \$593.72

NEW**★ Aboriginal Visual Culture in Canada CNPF 574**

The image of “the Native” has historically been used in western popular culture and media as a device of social and political control designed to marginalize, romanticize and assimilate indigenous cultures. This course will examine the historical misrepresentation of Aboriginal people and culture, as well how Aboriginal artists and cultural producers have subverted, critiqued, challenged and changed the perception of Aboriginal people through the media of film and photography.

39 Hours

Fee: \$593.72

☆ Introduction to Physical Computing**CDNM 322**

This course introduces students to the conceptual and technical concerns associated with making physical and hybrid experiences. Students will use open source software (Processing) and hardware (Arduino) to develop works that span the gap between virtual and physical worlds. (Equivalent to MPM 308.)

Note: Knowledge of scripting or coding is an asset.

Supplies to be purchased by the student: \$50.

39 Hours

Fee: \$625.55

New Media

These courses may be taken as individual courses for professional or personal development.

★ Introduction to Web Presentation CDNM 109

Students develop a public presentation strategy that includes designing and constructing a web page featuring their student work or business profile. Students produce a printed poster using text, graphics, and manipulated images. By conducting creative, technological, and academic research, students gain an introduction to Adobe Photoshop, Dreamweaver, and Flash animation, as well as basic HTML5 and CSS3. Design and usability concerns will be discussed and students will learn to apply these concepts to their work. Equivalent to MPM 107.

39 Hours

Fee: \$649.95

★ Introduction to Interaction Design CDNM 121

Students will learn core programming skills using Processing (an open source platform) to generate dynamic images with the goal of creating interactive experiences. This course introduces students to data-based and code-based practice. Students will examine behavioural media and how to design for it and develop their own artistic and thematic concerns through projects. Emphasis will be placed on finding and creating structure and meaning in new media experiences. Equivalent to MPM 207.

39 Hours

Fee: \$649.95

★ Flash for New Media CDNM 209

Students will use Flash and Action Script to create an algorithmic design, animation, and a dynamic interface. This studio class introduces students to fundamental concepts, techniques, and strategies of computer programming as an art form by teaching how to code interactive programs. The course investigates the interplay between creative expression and technological capability. Equivalent to MPM 206.

39 Hours

Fee: \$649.95

★ Video and Audio for New Media CDNM 221

This studio class introduces students to fundamental concepts, techniques, and strategies for video production. Project development and production, media literacy, reflective thinking, and public presentation strategies are aimed at creating a strong foundation in media. Video and audio production formats for the web will be examined. Equivalent to MPM 106.

Supplies to be purchased by the student: \$50–\$100; details will be provided at the first class.

39 Hours

Fee: \$649.95

NONPROFIT AND VOLUNTARY SECTOR MANAGEMENT

The Chang School has created these distinctive, interdisciplinary program offerings in response to the demand for education that focuses on the specialized needs of the sector.

Nonprofit

Related certificate(s): Accessibility Practices: AODA and Beyond, Community Engagement, Leadership, and Development, Entrepreneurship and Small Business, Fundraising Management, Nonprofit and Voluntary Sector Management, Nursing Leadership and Management, Advanced

★ Understanding the Nonprofit Sector **CINP 900**

This course provides students with critical insight into the origins and the ideological, social, political, legal and economic contexts of the rapidly changing nonprofit and voluntary sector allowing them to grasp the complexity, diversity and challenges facing nonprofit organizations today. Topics include: defining the scope and nature of this sector; the welfare state and the role of the non-profits; the political and legal operating environment of non-profits; and understanding the changing ideological and economic landscape.

39 Hours

Fee: \$593.72

★ Developing Effective Organizations **CINP 901**

The emphasis in this course, is on developing approaches that both employees and volunteers in non-profit organizations can use to deal effectively with the issues facing their organizations. The course explores principles and practices of management and administration as they are adapted to board-staff relations, board governance, recruiting and motivating volunteers, human resource management, accountability, organizing for and managing growth and change, analysis of an organization's market and organizational strategic planning.

39 Hours

Fee: \$593.72

★ Program Evaluation **CINP 902**

In the current climate of increased demands for public accountability, non-profit organizations need to develop sound program planning and evaluation skills. Both funding and public demands for internal and external accountability at the program and organizational levels will be explored. This course will focus on the development of knowledge and skills to plan and evaluate programs and services in a variety of human service organizations. Topics include models of evaluation and strategies for assessing accountability.

* *Saturday sessions are classroom-based and are a mandatory course component.*

39 Hours

Fee: \$593.72

★ Strategic Planning **CINP 910**

Setting measurable objectives and building plans at the organizational level is difficult for non-profits, but essential to address growing demands for accountability. This course teaches students how to develop and present annual goals and strategic plans for internal and external audiences. It also examines the ongoing process of adjusting strategic plans to ensure the organization achieves its annual objectives. Topics covered include mission statements, environmental analysis, goal formulation, strategic options, and organizational level evaluation.

39 Hours

Fee: \$606.45

★ Advocacy and Governmental Relations **CINP 911**

Voluntary and non-profit organizations need to advocate effectively on behalf of their constituencies and their organization. The course provides hands-on, applied training that will enable those working in the third sector to advocate and lobby effectively on behalf of their specific constituency, and also as part of broader coalitions (social movements) for change. Topics include influencing the public policy process, identifying and accessing government bodies and resources, developing effective public and government relations strategies.

39 Hours

Fee: \$606.45

★ Marketing for Nonprofit Organizations **CINP 912**

Antirequisite(s): CMKT 100

When an organization understands its various audiences and employs the right tactics to reach them, it can achieve positive results including: increased government funding and supportive regulatory environments, generous philanthropic support, motivated staff and volunteers, and informed and responsive clients. This course provides students with a clear understanding of the role of marketing in a nonprofit setting, including its impact on fundraising, client services, government relations and volunteer management.

39 Hours

Fee: \$606.45

★ Leading Through Change **CINP 913**

Antirequisite(s): CMHR 650

Societal transformations affecting the non-profit sector today are so fundamental that they demand new models of action. This course provides tools to plan for changes necessitated by economics and political restructuring, emerging informational technologies and increasing demographic diversity. Topics include environmental scanning, organizational diagnosis, planned change strategies, managing transitions, overcoming resistance, mobilizing commitment among volunteers, and changing the organizational culture. The role of leadership will be underlined throughout with reference to several different leadership theories.

**Saturday sessions are classroom-based and are a mandatory course component.*

39 Hours

Fee: \$606.45

★ Issues of Diversity

CINP 914

Antirequisite(s): CINT 905 and CSWP 924

The challenges facing organizations today require management, staff, and volunteers to work together collaboratively. Developing effective problem-solving skills and understanding group dynamics is key to addressing issues of diversity, change, and conflict. This course will explore diversity as it relates to patterns of communication, dynamics of team function, volunteer and staff recruitment and development, and various approaches to team building. Teaching practical skills will be a key component in this course.

39 Hours

Fee: \$606.45

★ Financial Management

CINP 915

It is essential for those working in the non-profit sector to understand the competitive funding environment in which they operate. Students will gain understanding of the fiscal environment, including discussions of different funding sources and mechanisms, financial information systems, and budgetary priorities and processes. This course also provides students with the financial analysis tools required to use the budgetary and financial information relevant to public and para-public organizations, as well as developing reporting and evaluation skills.

Saturday sessions are classroom-based and are a mandatory course component.

39 Hours

Fee: \$593.72

★ NGOs and World Governance

CINP 916

This course investigates the expanding role of Non Governmental Organizations (NGOs) in the creation and implementation of public policy at a global level. It addresses the evolution of international NGOs (INGOs) as significant actors on the policy stage. The course analyses these organizations, with particular emphasis on the diversity of organizations, the types of activity in which they are engaged, and how their structures and activities have combined to increase their role in global governance.

39 Hours

Fee: \$596.90

★ Critical Issues in the Third Sector

CINP 920

Prerequisite(s): CINP 900 and CINP 901 and (CINP 902 or CINP 915)

Changing its focus each year, this course offers students opportunities to identify and explore current issues relevant to their own organizations and areas of interest. It presents students with a chance to examine critical issues in far greater depth than would normally be the case. Students will conduct guided research, applying theory to practice, in an area of their choosing.

39 Hours

Fee: \$593.72

NURSING

The G. Raymond Chang School of Continuing Education, in cooperation with the Daphne Cockwell School of Nursing, has been highly responsive to the needs identified by nurses for high-quality, accessible, degree-level educational opportunities. Credit courses are offered in three categories:(a) degree-credit professional courses selected from the BScN program,(b) prerequisite and professionally related elective arts courses, and© specialized credit electives in the Certificate in Advanced Nursing Leadership and Management. More information and resources are available online including room numbers, regional access centre locations, course outlines, information on the 19- and 30-month part-time degree in Nursing, and the Nursing Academic Planner. Please note that all nursing courses involve computer use. Students require access to a computer with Microsoft Windows (Windows 2003 minimum) and Internet Explorer.

Nursing

Related certificate(s): Health Services Management, Nursing Leadership and Management, Advanced

☆ Nursing Practice I

CNCL 700

Prerequisite(s): CNUC 832, CNUR 600, CNUR 805, CPHL 302 and [(CNUR 850 and CNUR 860) or CNUR 80B]

Corequisite(s): CNUR 810 and CNUR 833;

This is the first of two clinical courses in which the students will use nursing and other theorists to guide their practice. Students will apply teaching-learning, communication, health promotion and community health principles when working with individuals, groups and families in community-based settings. Students will practice culturally sensitive, creative and flexible nursing. Emphasis will be placed on critical thinking, self-reflection, utilization of research findings and the application of concepts from leadership and change.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Registration also requires submission through the Central Placement Office several months prior to actual enrollment date.

The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component.

208 Hours

Fee: \$1213.29

☆ Nursing Practice II

CNCL 800

Prerequisite(s): CNCL 700 Corequisite(s): CNUR 820 or CNUR 823 or CNUR 824 or CNUR 825 or CNUR 826 or CNUR 827 or NUR 828;

This clinical course will provide students with the opportunity to consolidate program and course learnings. Using theoretical approaches that are relevant to the practice setting, students will assume responsibility for more complex assignments expected of a beginning level baccalaureate graduate. Critical thinking and reflective practice will be key components of this course. Emphasis will be placed on the multiplicity of nursing roles in hospital and community settings. Students may apply theory from their nursing elective in the final practice setting. Clinical group meetings will be scheduled throughout the term.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Registration also requires submission through the Central Placement Office several months prior to actual enrollment date.

The scheduling reflects the practice-based instruction. In addition, students are required to participate in a mandatory weekly Internet component.

208 Hours

Fee: \$1213.29

☆ Community Nursing

CNUC 832

Prerequisite(s): CNUR 816 and CNUR 830
Corequisite(s): CNUR 600;

This course will focus on the role of the community health nurse in working with individuals, families and communities and populations. It will examine in detail current frameworks of illness prevention, health promotion and community development. Nursing roles in a variety of health promotion approaches will be examined. These will include the medical approach, behavioural change strategies, educational strategies, empowerment and advocacy, and social change related to socio-economic environment. The theoretical concepts will be linked to a discussion of current examples of community health programs and research.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$612.82

☆ Epidemiology: Major Health Problems

CNUR 600

Prerequisite(s): CNUR 850;
Corequisite(s): CNUR 860

In this course students will examine the principles and methods of epidemiology and apply these to selected populations. Major health problems across the lifespan and recommended intervention strategies will be explored from a primary, secondary and tertiary perspective. How the nurse applies knowledge of epidemiology, when working with individuals, families and communities, will be examined. Current literature and research findings will be utilized to direct discussion and analyze issues.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

☆ The Evolution of Theoretical Knowledge

CNUR 805

In this course, the student will explore the philosophical evolution of nursing knowledge as an art and a science. Using a transformation theory base, the student will analyze a variety of nursing theories, concepts, and models, and the root of her/his own perspective of nursing practice. Major emphasis will be placed on the use of a theoretical framework to direct the processes of assessment, clinical judgment, care planning and evaluation. The interrelationship of systems theory and nursing theories, and their application to practice is examined.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

☆ Concepts in Contemporary Nursing Practice

CNUR 810

Prerequisite(s): CNUC 832 and CNUR 850 and CNUR 860

The focus of the course is to analyze, and apply theory and contemporary concepts associated with health and illness, health care delivery, and family development through the lifespan. Discussion will involve individuals and families with a focus on contemporary nursing practice at primary, secondary, and tertiary levels. Examples of concepts to be explored are: client-nurse diversity, self-care, and care-giver burden, chronic illness, resilience, and powerlessness.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

☆ Health Assessment**CNUR 816**

This course provides the student with knowledge and skill in the area of health assessment across the lifespan. Content will focus on interviewing, the health history, mental status, cultural beliefs and values, physical assessment of body systems, and will include trans-racial considerations. Assessment of the family, as well as domestic violence screening and assessment are incorporated.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times that may vary or extend past the scheduled course end date. Details will be provided at the start of each course. Students in this course are required to complete a head-to-toe return demonstration exam which may take place on a scheduled day and time that may differ from scheduled in-class lab, or dates assigned for the Distance: Internet version of the course. Students living within a 200 km distance from Ryerson University will complete this exam on campus. However, students at a greater distance may be provided with the following options to complete the return demonstration: at Ryerson; or to make arrangements to complete the return demonstration at an approved lab setting where there is access to Internet and web-camera capabilities.

52 Hours

Fee: \$809.08

☆ Gerontological and Geriatric Nursing**CNUR 820**

Prerequisite(s): (CNUC 832 and CNUR 805 and CNUR 816) or (NSE 32B and NSE 31B and CNSE 407 and NSE 306)

Corequisite(s): CNSE 418 or CNCL 800;

This course will give students an opportunity to expand their knowledge and skill related to the promotion, maintenance, and restoration of health of the elderly client and family in institutional and community settings. Assessment of the physical and psychosocial well-being of elderly clients, their families and plans of care based on nursing theory will be presented. Current research findings in nursing and related fields will be presented and discussed.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times that may vary or extend past the scheduled course end date. Details will be provided at the start of each course.

39 Hours

Fee: \$593.72

☆ Adult Health**CNUR 823**

Prerequisite(s): (CNUC 832 and CNUR 805 and CNUR 816) or (NSE 32B and NSE 31B and CNSE 407 and NSE 306)

Corequisite(s): CNSE 418 or CNCL 800

This course provides opportunities for study and integration of pathophysiological and nursing concepts related to the impact of acute and traumatic conditions on individuals and families across the life span. Emphasis will be placed on assisting students to develop advanced assessment skills and complex interventions. Example of populations include clients experiencing multiple trauma, advanced stage of HIV infections, burns, organ transplants, acute cardiac, respiratory and neurologic episodes.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times that may vary or extend past the scheduled course end date. Details will be provided at the start of each course.

39 Hours

Fee: \$593.72

★ Current Issues and Future Perspectives**CNUR 830**

This course will examine the legal, political, economic and social complexities of current health care delivery systems. Current issues and future perspectives in health care will be critically analyzed in relation to their implication for and their influence on the organized profession, individual nurses and nursing practice. Students will be expected to take personal and professional action in addressing some of these issues through their use of the political process and in the application of research finding. At a beginning level, students will participate in the development of health and social policy.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

★ Leadership Development for Practice**CNUR 831**

Prerequisite(s): CNUR 830

This course will focus on the nurse's role in providing leadership and facilitating change in both personal and professional contexts. Content will include analysis of theory and concepts related to leadership, followership, change and effective communication within a diverse workforce. The impact of Informatics on the delivery of nursing and health care will be explored. The use of research findings and their application to practice will be emphasized. Students will be expected to identify and apply leadership strategies for personal development and professional practice.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times that may vary or extend past the scheduled course end date. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

★ Organizational Context of Practice**CNUR 833**

Prerequisite(s): CNUR 831

This course expands students' knowledge of the macro, meso and micro-level factors in the health care system impacting service delivery and professional practice. Students critically analyze forces in the internal and external operating environments influencing strategic management decisions and organizational behaviours. This analysis fosters an enhanced understanding of the broad contextual factors shaping nursing roles and influencing how nurses enact their roles within different health service organizations and settings.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$606.45

☆ Research Methods**CNUR 850**

Corequisite(s): CNUR 805

In this course students will examine the contribution of research to the development of nursing science. They will explore the relationships between research and knowledge; and theory and practice. The focus will be on understanding the components of the research process, in the positivist and naturalist paradigms, as well as mixed methods designs. Students will use computer technology to search the nursing and health-related literature. The ethical conduct of research will be addressed. Students will learn to interpret and critically appraise nursing research studies, applying research findings to practice, and identifying areas for further nursing research.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$593.72

☆ Statistics and Nursing**CNUR 860**

Prerequisite(s): CNUR 850

In this course the emphasis is on the preparation of statistical data, its analysis and interpretation within the context of the positivist research paradigm in nursing research. Descriptive and inferential statistics will be examined and utilized, from nursing research databases. Students will use computer technology to process numerical data and conduct statistical analyses. Strategies for critically reviewing, integrating and disseminating statistical findings from nursing research will be discussed as well as the implications of the findings for nursing practice.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times. The end dates for these sections have been adjusted to accommodate this requirement. Details will be provided at the start of each course.

39 Hours

Fee: \$593.72

❖ University Skills for Nurses**CVNU 101**

The purpose of this workshop is to provide nurses entering Post-RN BScN degree studies with an introduction to the basic scholarly skills required for success in university level education. Topics include the basic steps for writing university essays and using APA format; networking and learning with others through computers; classroom presentation skills; library article searches online; and time management skills for busy nurses returning to school.

Note: This is a non-credit workshop.

Material Fee: A material fee of \$15 is included in the total fee indicated above. For further information, see Material Fees.

16 Hours

Fee: \$91.79

★ Health and Social Policy**CVNU 317**

This course explores the definition of policy, and its contexts, development, and effects at the community, professional, corporate and government levels. It introduces concepts related to policy content, process, outcome, and analysis and it investigates the nurse's role in policy development. The relationship between health and social policy to people, their environments, their health, and nursing is addressed through critical analysis, discussion, small group process, expert guest presentation, and independent study. Case studies relating to current health and social policies will also be reviewed in the classroom setting. Equivalent to Nursing Elective: Special Topics in the BScN program.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Students enrolled in Internet sections of this course are required to write the course test and/or exams online at preassigned dates and times that may vary or extend past the scheduled course end date. Details will be provided at the start of each course.

39 Hours

Fee: \$593.72

★ Health Law**CVNU 320**

The objective of this course is to give students an understanding of the components of negligence actions, labour arbitrations, discipline proceedings, and inquests. The relationship between standards of practice, ethics, and different legal proceedings will be reviewed. Particular emphasis will be given to the impact of the intervention by nurse managers on the development and outcome of the case. Equivalent to Nursing Elective: Special Topics in the BScN program.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory.

39 Hours

Fee: \$606.45

★ Financial Management**CVNU 321**

This course will examine the financial strategies and processes used by health care institutions and agencies to manage their human and material resources. The specific mechanisms used by hospitals to develop and monitor their budgets as well as trends in reimbursement and management information systems will be reviewed. Basic accounting principles will be included to facilitate examination and use of financial statements and balance sheets. Considerable time will be devoted to reviewing the concepts related to staffing, budgeting, and monitoring to assist the student to develop a budget for a prototype nursing unit. Equivalent to Nursing Elective: Special Topics in the BScN program.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course.

39 Hours

Fee: \$593.72

★ Computer and Information Management in Nursing CVNU 322

In today's health care environment, decisions must be based on sound information to provide quality care in a cost-effective way. Well-informed decisions require accurate, complete, and timely information obtained from well-managed data processes. Health care professionals must be fluent and competent to work with the necessary tools to manage information. Computers and the applications which drive these machines are important to understanding the potential of information management. This course will explore various theories and concepts of information management and will allow the students to further their knowledge of computer concepts and applications. Equivalent to Nursing Elective: Special Topics in the BScN program.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory.

This is an advanced-level course. It is recommended that the student have a beginning knowledge of computer functions and have working knowledge of word processing software in order to complete assignments.

39 Hours

Fee: \$593.72

⊕ Advanced Leadership and Management**CVNU 360***Prerequisite(s): Department consent*

This course will build on core components of nursing leadership and management, with a specific focus on first-line management roles, using the LEADS in a Caring Environment Framework. Students will examine theories and concepts related to leadership capabilities, as well as develop management knowledge and skills. Applied learning methodologies will be used to develop students' self-reflective, analytical leadership, and management skills.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course.

39 Hours

Fee: \$599.85

⊕ Change and Innovation**CVNU 370***Prerequisite(s): CVNU 360 and Department Consent*

This capstone course is an integrative course that provides the opportunity for students to apply the LEADS framework and related theories and concepts in a health services setting. Students will plan a change and/or innovation project based on a selected nursing leadership/management issue. A project report will be completed to provide evidence of the application, synthesis, and integration of the dimensions of the LEADS framework, as well as the individual student's focus of study for the certificate.

Note: In order to take this course, you must be a Regulated Registered Nurse (RN) and have a registration/licensure with a College of Nurses in a Canadian province or territory. Applicants must complete an application for pre-approval prior to registering in this course.

39 Hours

Fee: \$599.85

NUTRITION

These courses enhance knowledge of nutrition in related fields of study.

Nutrition

Related certificate(s): Food Security

★ Introduction to Nutrition

CFNN 111

Antirequisite(s): FNN 100

This course presents nutrition principles so as to promote health and optimal nutritional status, and reduce the risk of chronic disease. Topics include the basics of nutrition, macro- and micro-nutrients, and nutrition assessment using a lifespan framework. This course explores the concepts of living well from an inter-dependent and personal and professional perspective.

39 Hours

Fee: \$612.82

OCCUPATIONAL HEALTH AND SAFETY

These courses may be completed by distance education as well as in the classroom.

Occupational Health

Related certificate(s): Accessibility Practices: AODA and Beyond, Advanced Safety Management, Facility Management, Occupational Health and Safety

☆ Foundations of Aetiology

CENH 222

This is a foundation course to the study of epidemiology, which itself is the core science of occupational and public health. The course will provide the framework required for upper level courses in communicable disease control, infection control and food hygiene. Lectures will cover the concepts underlying food and water quality control and the development and control of communicable and occupational diseases in human populations. Laboratory exercises will enable students to understand the methods used by public health and occupational health laboratories to evaluate food, water, environmental and clinical specimens, and to interpret laboratory reports.

65 Hours

Fee: \$948.06

★ Occupational Health and Safety Law

COHS 208

Antirequisite(s): CMHR 711

This course begins with an examination of the Workplace Safety and Insurance Act and how the compensation system operates. An emphasis is placed on a detailed examination of the Occupational Health and Safety Act and the Canada Labour Code Part 2. A thorough analysis of the elements of the Internal Responsibility System is provided (duties, committees, work refusals). Secondary federal and provincial legislation is also covered. The course concludes with issues related to enforcement, prosecutions and due diligence.

Note: COHS cannot be replaced by CMHR 711 as a course credit towards the Certificate in Occupational Health and Safety.

39 Hours

Fee: \$610.69

★ Accident Theory and Analysis

COHS 323

Prerequisite(s): CPCS 106 or in OC006

This course examines accident causation theories and methods used to model accidents, the investigation process, accident reporting and coding, and noteworthy accidents in history.

Note: Registered certificate program students without the course prerequisites may apply for consideration to enroll in this course without the required prerequisites.

39 Hours

Fee: \$599.02

★ Integrated Disability Management**COHS 477**

This course explores the key concepts of Integrated Disability Management. A multi-disciplinary approach to managing all forms of disability will be put forward based on sound best practice disability management techniques. Government legislation and regulations will be reviewed as well as the influence of non-governmental organizations. Multiple models of disability management will be presented. The assessment and evaluation of various return to work processes will be undertaken development and implementation. This course replaces OHS (COHS) 777.

39 Hours

Fee: \$599.02

★ Occupational Health**COHS 508**

This course is designed to introduce the student to the scientific basis of occupational health, specifically the relevant principles and concepts of toxicology, biophysics and ergonomics. The nature of common occupational health hazards and their effect upon the human body are examined. Examples of common protective measures and controls are also reviewed. This course is not available to students in OC001, OC003, or OC005.

39 Hours

Fee: \$603.27

★ Ergonomics**COHS 516**

Prerequisite(s): (ENH 220 and CPCS 106) or in OC006

This course is designed to provide a comprehensive overview of ergonomics emphasizing applications to product design and prevention of musculoskeletal injuries. The focus includes anthropometry, workplace design, and biomechanical and other human factors. It also covers physical and cognitive principles relevant to human performance and well-being that are reflected in workspace, interface and task design including controls and displays and manual materials handling. Ergonomic assessment methodologies will be used to assess design features and possible musculoskeletal problems.

Note: Registered certificate program students without the course prerequisites may apply for consideration to enroll in this course without the required prerequisites.

39 Hours

Fee: \$589.48

★ Safety Evaluation Techniques**COHS 523**

Prerequisite(s): CMT 125 and CPCS 106

This course introduces principles of evaluation and surveys a range of methods used to evaluate safety, including the use of injury data, task analysis methods, goal structuring notation and safety cases, and introduces various qualitative and quantitative methods for evaluating safety including inspections, FMEA, fault tree analysis, HAZOP, human error identification methods, and related evaluation techniques.

Note: Registered certificate program students without the course prerequisites may apply for consideration to enroll in this course without the required prerequisites.

39 Hours

Fee: \$589.48

★ Hazard Recognition and Control**COHS 608**

This course introduces the techniques of hazard recognition and control and examines specific hazards-primarily of a physical and safety nature. Hazard recognition and hazard control are shown to be interrelated since inadequacies of control measures in themselves may constitute hazards. Not available to students in OC003 or OC006

Note: This course is not open to ENVO, ENVS, or ENVC students.

39 Hours

Fee: \$610.69

★ Safety Control Methods**COHS 623**

Building upon earlier courses emphasizing hazard recognition and evaluation, this course examines the major categories of control methods, respiratory protective devices and measures essential to eliminate or reduce workplace hazards. The course emphasizes plant design, ventilation design, preventive maintenance, housekeeping, respiratory personal protective equipment and hygiene.

52 Hours

Fee: \$777.26

★ Systems Management I**COHS 718**

Basic concepts of management, decision-making and engineering design that affect the OHS specialist. Introduces individual elements of the contemporary OHS management system. Each element is considered from an evidence-based perspective, as a background for implementing codified management systems standards and best practices guidelines. Students will set health and safety priorities, develop management system plans, and negotiate health and safety requirements in the manufacturing, distribution, use, and/or disposal phases of a product or process life-cycle.

39 Hours

Fee: \$593.72

★ Sectoral Applications I**COHS 723**

This course is concerned with two of the primary sectors of the economy: industrial and construction. The safety hazards and protective measures associated with machinery, equipment and tools, confined spaces, hoists, trenching, industrial trucks and electrical sources are examined. Relevant legislation is presented.

52 Hours

Fee: \$783.62

★ Systems Management II**COHS 818**

Prerequisite(s): COHS 718

This course continues the theme of OHS 718, offering exposure to further programs and components of a mature, comprehensive OHS system in the workplace. Programs covered include those concerning: health and safety management systems, workers' compensation, re-employment of injured workers, workplace violence, vehicles/transportation, off-the-job health and safety, "wellness," substance abuse, labour relations, and regulatory compliance.

39 Hours

Fee: \$606.45

★ Sectoral Applications II**COHS 823**

Prerequisite(s): COHS 723

This course continues the survey undertaken in OHS 723 Sectoral Applications I. Following an analysis of the particular hazards and control measures found in the forestry, mining and transportation industries, the course focuses on narrower sectors of the economy such as health care facilities, retail outlets, offices and utilities.

52 Hours

Fee: \$783.62

★ Fire Safety Management**COHS 833**

This course begins with an overview of fire chemistry followed by an analysis of fire prevention and fire protection methodologies. Hazard recognition and evaluation techniques are presented. Important aspects of Fire, Building, and Electrical Codes are reviewed. Emphasis is placed on emergency response planning and a review of the application of codes and regulations to specific fire events.

39 Hours

Fee: \$593.72

★ Measurement and Analysis

CVOH 217

This course is designed to introduce the terminology, concepts, equipment, and techniques of occupational health and safety measurement and analysis. Topics covered include occupational hygiene, air sampling, data evaluation, biological sampling, and the assessment of heat stress, noise, vibration, radiation, illumination, and ventilation systems. Equivalent to OHS 421.

39 Hours

Fee: \$606.45

★ Topics in Occupational Health and Safety

CVOH 221

This course is an advanced seminar course that explores different means of inquiry into occupational health and safety. The course gives students an opportunity to learn the skills required to source out, research, examine, and synthesize topics in OHS in some depth. In the workplace, OHS professionals need to investigate issues they may not have expertise in. The students obtain an in-depth exposure to topics by researching and analyzing information, figuring out the implications for the workplace, summarizing the issues, and offering recommendations.

39 Hours

Fee: \$606.45

PHILOSOPHY AND MUSIC

In Philosophy, we cover both the 'Big Questions,' such as "What can we know?" or "How should we live?" or "Does God exist?," as well as subject-oriented areas, such as philosophy of religion or ethics and health care. Sometimes, we deal with questions that have been discussed for thousands of years. Each generation has to answer them again, either expressly or by the implications of the choices they make and the beliefs they adopt. At other times, we deal with questions arising from the social arrangements and technologies we face right now - situations which may never have existed before. What unites these inquiries is the 'philosophical turn;' we learn how to uncover, evaluate, and use the most basic principles appropriate to the questions we tackle. In Music, we offer a range of courses in the traditions, development, variety, and cultural implications of various kinds of music.

Humanities

Students enrolled in Ryerson degree programs are responsible for ensuring that any course selected from those listed meets the specific requirements of their program. For more detailed information regarding specific program restrictions, check the Undergraduate Calendar. Related certificate(s): Ethics

✪ Ethics Capstone Course

COPH 200

This course requires participants to produce a 30 to 40-page scholarly essay, case study research paper, or project in another form of equivalent scholarship and depth on an ethical issue or an area of ethical theory. Normally, the participants will have a designated supervisor to oversee their work, although it is expected that their efforts will be largely self-directed.

Note: This course may be taken as individualized study/directed reading; please contact the Academic Coordinator, Alex Wellington, at awelling@philosophy.ryerson.ca prior to enrolling.

39 Hours

Fee: \$690.49

Music

Related certificate(s): Music: Global and Cultural Contexts

★ Intro to World and Early European Music

CMUS 101

This course provides basic knowledge and understanding of music in culture, with emphasis on listening skills and repertoire. Brief survey of world music and the Medieval, Renaissance and Baroque periods in European music. The functions of music in culture. Study of music vocabulary and early genres of music. Not available to Performance Production students. MUS 101 is not available for credit to students who choose MUS 300. (LL)

39 Hours

Fee: \$595.84

★ **Voices Without Borders: Global Chorus** **CMUS 105**

This course surveys vocal repertoire from around the globe, and may include African drumming songs, 'mingge' from China, Mexican 'corridos', Indian 'lok geet', Canadian folk songs, South-Asian 'qawwalis', and Eastern Europe folk song, among others. Students will explore the unique social histories and aesthetics of selected vocal genres with an eye to the breadth of stylistic approaches and forms of transmission in various cultural traditions. (LL)

39 Hours Fee: \$585.23

★ **The Architecture of Music** **CMUS 106**

From the Pythagorean monochord that ancient Greeks used to align with the Music of the Spheres to the Chinese bamboo pipes that sounded the first Chinese pentatonic scale, each culture has created its own coherent structure. This course introduces students to the historical development and foundational theories of both ancient and contemporary musical form through the exploration of musical genres around the world. Lectures will situate musical theories in their socio-historical and cultural contexts. (LL)

39 Hours Fee: \$591.60

★ **Introduction to Classical Music** **CMUS 201**

This course examines Western music from the Classical, Romantic and Modern periods (approx. 1750 to the present day). Survey of the development of major styles, genres and forms of European music, including symphony, concerto and sonata. Lives and works of the great composers including Mozart, Beethoven and Stravinsky. Not available to Performance Production students. MUS 201 is not available for credit to students who choose MUS 300. (LL)

39 Hours Fee: \$595.84

★ **Music Cultures of the City** **CMUS 211**

Large urban centres such as Toronto offer a tremendous variety of events, from superstars in the Rogers Centre to amateur folk musicians in local coffee houses. What are the ways we might better understand the relationship between music culture and the culture of the city? This course considers genres from a number of areas including popular music, world music, jazz and classical music. It examines issues of production, distribution and performance, as well as reception, venues and audiences.

39 Hours Fee: \$585.23

★ **Global Guitar** **CMUS 303**

The guitar, or plucked lute, is the de facto instrument of the masses in the western world. Through lecture, audio-visual screenings, discussion and experiential learning, this course explores the ways in which the guitar and its global variants have given voice to individuals and groups around the world, from ancient Persia and India to Africa and the Americas, and in so doing examines the impact of class, gender, race, politics and commercialization on creative self-expression.

39 Hours Fee: \$613.88

★ **Music, Religion and Spirituality** **CMUS 401**

This course explores the dynamic interrelationship of music, religion and spirituality in a multicultural context. Topics will include the role, style, and conception of music in the Islamic, Christian, Hindu, Jewish, Buddhist, Tibetan, and Taoist faiths, amongst others. The processes and traditions of spiritual practice through and with sound will be explored. The course will also analyze the musical forms through which these devotional practices are undertaken.

39 Hours Fee: \$595.84

★ **Traditional Musics of the World** **CMUS 501**

This course examines musical cultures around the world, focusing on traditional genres. Course content covers conceptual, structural, rhythmic and modal systems. The functions and meanings of music in diverse cultures will be examined. Representative genres will be studied, including the Indian raga, Turkish fasil (suite) and Japanese gagaku (court music). (UL)

Note: Restriction: TH001, TH002, TH003

39 Hours Fee: \$576.75

★ **Popular Music and Culture** **CMUS 505**

Antirequisite(s): RTA 905 (formerly BDC 935);

This course explores the development of North American, British and non-western popular music. Lectures investigate key historical periods and genres which define the popular idiom in the west, such as blues, jazz, country, rock n' roll, folk, rap, and electronica, as well as popular idioms from beyond the western world. Changes in technology, economics and demographics will be discussed, as will links between popular music and the prevailing social conditions of each period. (UL)

Note: Restriction: TH001, TH002, TH003

39 Hours Fee: \$576.75

Philosophy

Related certificate(s): Accessibility Practices: AODA and Beyond, Community Engagement, Leadership, and Development, Criminal Justice and Criminology, Ethics, Health Studies, Social Sciences and Humanities Foundations

★ **Plato and the Roots of Western Philosophy** **CPHL 101**

An introduction to Philosophy, using Plato's Republic. Topics include: How ought we to live our lives? What is justice? What is the nature of society and the individual? What social arrangements (educational, political, economic) best serve the ideals of justice and happiness? (LL)

39 Hours Fee: \$595.84

☆ **Philosophy of Religion I** **CPHL 110**

Antirequisite(s): PHL 610

This course examines religion from a philosophical perspective. What is the nature of the "divine"? Can we give a rational account of religious experience? Can we prove the existence of God? Can the idea of God be reconciled with the presence of evil in the world? Is atheism a viable alternative to faith? These are just some of the questions this course explores. We will consider both western and eastern religions. PHL 110 is not available for credit to students who choose PHL 610. (LL)

39 Hours Fee: \$595.84

- ☆ **Ancient Greek Philosophy** **CPHL 187**
 This course explores major themes in Ancient Greek thought. The course covers some of the doctrines Plato and Aristotle developed to answer a wide range of questions, e.g., What is the good life for a human being? What is knowledge? How should we distinguish reality from appearances? What kinds of things exist? What is the soul? Is the soul immortal? In addition, we may examine the ideas of other philosophers of this period. (LL)
 39 Hours Fee: \$584.17
- ★ **Business Ethics** **CPHL 307**
Antirequisite(s): CITM 407, CITM 734
 This course examines ethical issues and controversies concerning contemporary business practices and situates them within the broad intellectual framework of a free market society. Discussion will draw from such topics as: the concept of a market society, consumer sovereignty, utilitarian and contract models of business ethics, profit making and social responsibility, self-interest and altruism, the concept of business as a practice, mechanistic and organic conceptions of business, advertising, human rights, and conflicts of interest.
 39 Hours Fee: \$576.75
- ★ **Problems in Philosophy** **CPHL 201**
Antirequisite(s): PHC 180
 This course serves as an introduction to philosophy by focusing on problems and issues which have occupied thinkers down through the centuries. For example, how can we relate talk about the cause and effect relationship governing physical events with talk about people making free choices? How do mind and body relate? What do we really know about the physical world or other people's minds? Can we know whether God exists? Are moral judgements objectively true or false? (LL)
 39 Hours Fee: \$595.84
- ★ **Philosophy of Human Nature** **CPHL 333**
 This course examines philosophical writings about human nature. Topics may include: 1) What meanings are there for the word 'nature'? 2) How do we differentiate human nature from the nature of other sorts of beings? 3) What makes a response to a problem a human response? The course presumes that there are no unquestioned first principles, such as the existence of God, the inherent goodness of humans, or the objectivity of truth claims and values. (LL)
 39 Hours Fee: \$576.75
- ☆ **Critical Thinking I** **CPHL 214**
Antirequisite(s): CSSH 105, PHC 182
 A course designed to develop clarity of thought and method in the construction, analysis and evaluation of both unsupported claims and those supported by arguments. While there will be some exposure to the notion of logical form, the emphasis here is upon informal principles and arguments stated in ordinary language. Topics include the nature and methods of argument, classification and definition, along with some common fallacies and some questions about meaning and language. Restriction: Criminal Justice, Politics and Governance, Psychology, Sociology, Undeclared Arts. PHL 214 is not available for credit to students who choose SSH 105. (LL)
Note: Restriction: AC001, CJ001, PG001, PS001, SO001, AV001
 39 Hours Fee: \$595.84
- ★ **Ethics in Professional Life** **CPHL 334**
Prerequisite(s): ACS 105 or CSSH 105 or any PHL course.
 This course examines the many ways that organizations and professions institutionalize values, influence beliefs and attitudes, and guide conduct through prescriptions for professional practices and missions and mandates for organizations. The course focuses on prominent issues such as codes of ethics, conflict of interest, dirty hands, and whistle-blowing. Readings emphasize the complexities of virtue and moral agency for professionals and organizations, while comparing and contrasting selected established and emerging professions.
Note: This course is currently offered as an individualized study/directed reading course; students interested in enrolling should contact Dr. Alex Wellington at awelling@ryerson.ca.
 39 Hours Fee: \$576.75
- ★ **Ethics and Health Care** **CPHL 302**
Antirequisite(s): CPHL 509
 This course examines ethical issues arising in the delivery of health care at both the level of the practitioner/client relationship (confidentiality, informed consent, euthanasia, abortion) and at a broader social level (justice and resource allocation, new technologies, professionalization and power). The course will draw on: a) general philosophical analysis of central concepts (good, right, justice, person-hood, autonomy, authority, integrity, health); b) general theoretical perspectives (feminism, "the Biomedical model"; Utilitarianism, deontology); and c) student professional education and clinical experience in nursing.
 39 Hours Fee: \$582.05
- ★ **Existentialism and Art and Culture** **CPHL 366**
 Through literature, visual art, film, and theory, this course explores existentialist lines of thought and their implications for modern day life. Existentialism is a philosophical and cultural movement critical of social illusions and self-deceptions that thwart genuine freedom. Exploring experiences of anxiety, futility, and isolation, analyzing the nature of the individual's relation to society, morality and religion, and arguing for the irrational nature of reality, existentialist theorists and artists seek to promote freedom, creativity, authenticity. (LL)
 39 Hours Fee: \$576.75
- ☆ **Freedom, Equality, Limits of Authority** **CPHL 306**
Antirequisite(s): PHC 181, PHL 181
 In light of our moral concepts and theories, this course critically examines current controversies concerning individual freedom and responsibility, social equality, and the limits of governmental authority. Topics are drawn from issues like the following: censorship of hate literature, pornography, and advertising; prohibition of drugs, gambling, and prostitution; group-differentiated rights concerning aboriginal peoples, cultural sovereignty, affirmative action, and pay equity. (LL)
 39 Hours Fee: \$585.23
- ★ **Human Rights and Justice** **CPHL 400**
 This course aims to provide the philosophical background and conceptual tools which would enable students to recognize and handle complex contemporary issues and conflicts involving human rights. Topics include: classic and contemporary theories of rights and justice; equity and affirmative action; children's rights; gender, sexual orientation and equality rights; aboriginal, language and cultural rights; human rights and cultural relativism. The course will combine lectures and discussion of selected philosophical readings and case studies.
 39 Hours Fee: \$576.75

★ **Philosophy and Mass Culture** **CPHL 401**

This course will explore the phenomenon of popular culture from various philosophical perspectives. Philosophers are divided in their assessment of the aesthetic and moral worth of mass culture. While some thinkers, like Walter Benjamin and, more recently, Noël Carroll, tend toward an optimistic appraisal, others, like Theodor Adorno, adopt a much more critical attitude. Popular culture as a whole will be examined, but special attention will be given to film, photography, and television.

39 Hours

Fee: \$576.75

☆ **Issues of Life, Death and Poverty** **CPHL 406**

Antirequisite(s): PHC 181, PHL 181

In light of our moral concepts and theories, this course critically examines current controversies concerning the sanctity of life, the constraints on ending life, and our obligations to provide the conditions for an acceptable life. Topics are drawn from issues like the following: abortion, euthanasia, capital punishment, genetic manipulation, war, torture, global poverty, famine relief, and basic welfare rights. (LL)

39 Hours

Fee: \$585.23

★ **Ethics in Health Services Management** **CPHL 444**

This course translates the principles, theories and practices of ethical decision making into information and applications which will be relevant to healthcare administration. The course builds on the recognition of the influences and factors that impact on health care managers' ethical decision making. Topics and issues which will be addressed in the course include: the role of market forces, integrated medicine, technology, and their impact on quality assurance programs.

39 Hours

Fee: \$576.75

★ **Philosophy of Punishment** **CPHL 449**

What is the meaning of legal punishment? Why should we punish criminals (including natural and artificial persons, individuals and collectives)? In what ways should they be punished? How important is proportionality of punishment? How significant are expected consequences of punishment? This course critically examines developments in philosophical thinking about the conceptual foundations of punishment, focusing on theories of deterrence, retributivism, and restorative justice. Readings are comprised of classic and contemporary works by philosophers.

39 Hours

Fee: \$576.75

★ **Philosophy of the Natural Environment** **CPHL 500**

The rise of environmental philosophy challenges the "anthropocentric paradigm" that has dominated Western thought. This course explores the implications of this challenge for our conception of ourselves, the basis for both human and natural values, and our obligations within the human and biotic communities. Topics include: traditional philosophical attitudes towards nature, obligations to future generations, "animal rights", individual versus holistic models of value in relation to ecosystems, species and wilderness, and conflicts between human and natural values. (UL)

39 Hours

Fee: \$570.38

☆ **Social Thought and the Critique of Power** **CPHL 501**

What is power, and who really holds it in contemporary society? Is our government's power over us legitimate, and what are its proper limits? Do democracies really succeed in giving power to ordinary people? When is it right for citizens to rebel against the powers that be? Such questions and others will be addressed by way of a study of some of the great social and political philosophers of the modern world. (UL)

39 Hours

Fee: \$570.38

★ **Ancient and Modern Ethics** **CPHL 503**

This course explores seminal works in Western ethics. It analyzes different responses to such questions as: What kind of life is ultimately worth leading? What makes a person good? What makes an action right? Are there moral demands that bind everyone? If so, can we know what they are? Does morality have its foundations in religion? Reason? Emotion? Social practices? Contributions from such thinkers as Aristotle, Aquinas, Hume, Kant, and Mill will be studied. (UL)

39 Hours

Fee: \$576.75

☆ **Philosophy of Art** **CPHL 504**

The objective of this course is to provide students with an overview of a number of different theories concerning the nature of art. It will address such matters as the relationship between art and truth, the appropriate criteria of art criticism, the distinction between art and non-art, and the nature of aesthetic values. (UL)

39 Hours

Fee: \$576.75

★ **Ethics and Disability** **CPHL 507**

The life circumstances of disabled people are shaped by powerful ideological forces rooted in moral and political philosophy. This course introduces important intellectual traditions underpinning the human quest for justice. From this base, students 'test out' various ethical approaches, grappling with fundamental questions: How shall we be guided in approaching new reproductive technology, end-of-life decisions and asymmetrical relations of care? Are there limits to individual autonomy? How shall we distribute health care and social resources?

39 Hours

Fee: \$576.75

★ **Bioethics** **CPHL 509**

Antirequisite(s): CPHL 302

Recent advances in biomedical sciences have raised a host of ethical concerns involving the sanctity and quality of life, fairness, equality, and autonomy. New and revolutionary developments call for legislative reform and policies designed to keep research and its applications within appropriate boundaries. This course examines issues such as cloning, assisted reproduction, genetic screening, gene therapy, organ donation, and resource allocation within a framework of moral principles and contemporary debate. PHL 509 is not available for credit to students who choose PHL 302. (UL)

39 Hours

Fee: \$570.38

★ Environmental Ethics**CPHL 525**

Do animals have rights? Should trees have standing? Do ecosystems have interests? What ethical obligations do present generations owe to future generations? How should distributive justice implications of environmental decision making be addressed? The course will discuss a variety of ethical perspectives on human-environment relationships, including distinctly environmental philosophies such as deep ecology, social ecology, and ecofeminism. Readings will discuss the applications of theories to local and global environmental problems.

39 Hours

Fee: \$643.58

★ Media Ethics**CPHL 530***Antirequisite(s): CC 8969*

This course examines the rights, freedoms, and obligations of the media and practising journalists. Issues may vary somewhat from year to year, but the following are typical: the grounds and limits of freedom of expression; moral responsibilities respecting truth, balance, and objectivity; media ethics and business pressures; obligations to the public, to the audience, to source, to colleagues, to the employer, and to oneself. The course includes case studies as well as regular discussion of ongoing media activity.

39 Hours

Fee: \$576.75

☆ Knowledge, Truth and Belief**CPHL 550**

Do we know anything? If so, what do we know, and how do we know it? What is the difference between knowledge and mere belief or opinion? How can we tell if our beliefs are justified? What makes some beliefs true, and others false? Epistemology - the study of knowledge - is the branch of philosophy concerned with such questions. This course explores these issues by examining some important contributions to the field, both historical and contemporary. (UL)

39 Hours

Fee: \$576.75

☆ Metaphysics**CPHL 551**

This course is an introduction to philosophical accounts of the fundamental structure and organization of reality. Questions to be considered may include: Why does the universe exist? What are space and time? Is the past as real as the present? Are future events fated to happen? How is change possible? Are there other universes besides the one we live in? Criticisms of philosophical attempts to answer these questions will also be discussed. (UL)

39 Hours

Fee: \$576.75

★ Health Policy: Ethics and Justice**CPHL 602**

This course is concerned with implications of diverse theories of justice for the design and operation of health care. Topics covered may include: What might distinguish health care from other goods distributed by society? Who should have access to health care? What makes health care systems more or less fair? What are implications of social inequality for access to, and quality of, health care? How might health policy contribute to addressing problems of global injustice?

39 Hours

Fee: \$606.45

★ Modern and Contemporary Ethics**CPHL 603**

This course explores modern and recent answers to ethical questions such as: What makes an action right? What makes a person good? Are there moral demands that bind everyone? If so, can we know what they are? Does morality have its foundations in reason? Emotion? Social practices? Contributions from such thinkers as Hegel and Bradley, Moore, Ross, Foot, Williams, Gilligan, and MacIntyre will be studied. (UL)

39 Hours

Fee: \$576.75

☆ Existentialism**CPHL 605**

For existentialists, freedom is not a given, but something to achieve. Reading authors like Kierkegaard, Nietzsche, Sartre, Beauvoir and Heidegger, we'll ask what aspects of the human condition tend to thwart true freedom: Self-deception? Social norms or religious codes? Anxiety in confronting death? Longing for absolute justification for life's meaning? Alienation arising from an overestimation of reason or technology? We'll also consider what is required for authenticity, responsibility, freedom, and, possibly, the meaning of faith. (UL)

39 Hours

Fee: \$576.75

☆ Philosophy of Love and Sex**CPHL 606**

This course examines historical and contemporary philosophical perspectives on love and sex. Questions considered may include: What is romantic love? What are the relations between love, monogamy and marriage? Is adultery always morally wrong? What are the relations between love/sex and personal identity, gender and biology? What are sexual perversions? What is the moral status of prostitution and the commodification of sex? How should we define the concept of sexual harassment? (UL)

39 Hours

Fee: \$576.75

★ Philosophy of Law**CPHL 612**

What is law? What makes something a legal norm? Should citizens always obey the law? What is the relationship between law and morality? This course will explore competing theories of law, such as natural law and positivism, and touch on crucial debates over civil disobedience, purposes of punishment, and interpretation of legal texts. It will deal with contemporary controversies over the legal regulation of human behaviour, for instance in matters of sexual morality. (UL)

39 Hours

Fee: \$576.75

★ Philosophy of Human Rights**CPHL 614**

Are human rights universal? Are they absolute? Have civil and political rights been privileged in relation to social and economic rights? Should some human rights be understood as collective or group rights to address issues of cultural identity? This course critically examines the works of contemporary philosophers articulating diverse accounts of human rights, alongside objections which have been raised by Feminists, Cultural Relativists, and advocates of The Full Belly Thesis, and other perspectives. (UL)

39 Hours

Fee: \$643.58

★ **Beyond the Western Academic Tradition** CPHL 621

This course is an introduction to some major world religions and philosophies, systems which continue to inform the actions of cultures outside mainstream Euro-American tradition. Theoretical concerns can include such subjects as cultural relativism, differing cultural views on the nature of decisions and their justification, and the difficulties of adequately describing what is going on in a different cultural setting. More practical concerns can include such subjects as the problems of exporting political and economic systems across cultural boundaries, or of getting notions such as those of individual rights to make sense in a radically different conceptual milieu.

39 Hours

Fee: \$576.75

☆ **Religion, Science and Philosophy** CPHL 709

The physical sciences have contributed to philosophical debates regarding the apparent conflict between religious and scientific outlooks. In particular, religion and science seem to suggest different accounts of human nature, the universe, and our place in it. This course is concerned with issues such as: the basis for religious and scientific claims, nature and intelligent design, causality and free-will, and the emergence of mind. (UL)

39 Hours

Fee: \$576.75

☆ **Philosophy and Film** CPHL 710

This course examines the medium of film from several philosophical perspectives. Questions to be considered may include: What distinguishes film from other mass media and art forms? Do technical developments alter the definition of film? Is there a language of film? What can film teach us about the nature of perception? Does film contain an inherent gender bias? Has film created a captive audience, or is it the truly democratic art form? (UL)

39 Hours

Fee: \$576.75

★ **Intellectual Property and Technology** CPHL 921

This course examines the multifaceted aspects of developments in intellectual property policy. Students will explore the diverse ethical norms, social practices, and legal doctrines which are used to both justify and to critique existing policies. The course will introduce students to the basic types of intellectual property rights - copyright, patents, trademarks, and trade secrets. It will survey various ethical theories or perspectives which are brought to bear on the topic.

39 Hours

Fee: \$576.75

☆ **Philosophy of Religion II** CPHL 923

Prerequisite(s): CPHL 110 or CPHL 709

This course offers students an opportunity for advanced study of what philosophers have had to say about religion. Readings will be drawn from influential historical philosophers, and from contemporary philosophers. Some topics will pertain to theistic religions, some to non-theistic religions, and others to both. Topics may include: religious language; ethics and the meaning of life; the concept of the Sacred; the relationship between religious beliefs and evidence; and puzzles about the characteristics of God. (UL)

39 Hours

Fee: \$586.29

PHOTOGRAPHY

As photography continues to hold its own as a leading medium of communication, opportunities for skilled photographers have never been greater; at the same time, more and more people are discovering the creative rewards that photography offers to the hobbyist. Whatever your level of interest, you'll find many exciting and novel opportunities to cultivate your artistry and technical skills in the following courses and workshops.

Equipment/Facilities Use: Please note that use of equipment and facilities outside of class time will not be provided. Extra time may be purchased.

Photography

Related certificate(s): Design for Arts and Entertainment, Digital Art Production, Image Arts (Film Studies or Photography Studies), Photography Studies

★ **Analog Photography** CDFP 320

For photographers who want to improve their photographic skills, and for beginners, this course offers an intensive investigation of the basics of black and white photography. Substantial time is given to learning the basic technical aspects of photography: precise exposure, processing of film, darkroom procedures, and printing skills receive particular emphasis. As well, the major approaches to black and white photography are explored through lecture and assignment projects. (Formerly Techniques of Photography I)

Note: To find out more about your instructor, see the Photography instructor biographies.

Material Fee: A material fee of \$65 is included in the total fee indicated above. For further information, see Material Fees.

Supplies to be purchased by the student: Film and photographic papers (minimum \$150). The student must have a manually adjustable small/medium format camera and access to a tripod.

39 Hours

Fee: \$654.48

★ **Photography for Ad Agencies** CDFP 322

Learn what an art director does so you can create value as a photographer. Find out what's expected of a photographer Study layout, design, type, advertising photography, and the shoot process. Discover how art directors produce advertising in a variety of media - and then make ads yourself. Study estimating, casting, location scouting, logistics - what you need to know to create the shots required. Meet ad photographers and learn to build a creative business relationship. Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar). (Formerly Art Direction/Design Techniques)

Note: This course is suitable for both digital and traditional photographers.

To find out more about your instructor, see the Photography instructor biographies.

Supplies to be purchased by the student: Layout pad, felt pen markers, acetate and overlay materials, drafting tools, artboard, etc. Cost minimum \$85-\$100.

39 Hours

Fee: \$608.57

★ **Photography Production I** **CDFP 328**

This course introduces students to the fundamentals of photographic and lens-based imaging. It includes operation of the hand camera and digital photographic practices, image processing and print production, and exploration of meaning through images in relationship. Short, topic-orientated production assignments with critiques will be given. (Equivalent to MPS 106.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$652.07

★ **Photography Production II** **CDFP 329**

Prerequisite(s): CDFP 328

This course advances the development of core photographic concepts and skills learned in production. It includes an overview of camera systems, image production, and an understanding of fundamental studio lighting for portraits and still life. Through a series of assignments, students explore the nature and meaning of photographic images and discipline for self-directed work. (Equivalent to MPS 206.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$652.07

★ **Digital Printing** **CDFP 332**

This workshop format course is for the serious digital photographer wanting to learn how to make exhibition quality prints. Students will work with Adobe image manipulation applications learning advanced techniques in Photoshop, Camera Raw, and Lightroom to reveal a professional workflow. Information on calibrating your computer with the printing facility will be covered. There will be input from galleries and professional printing facilities to enable the student to experience firsthand what standards are required to produce ideal prints. Work will be reviewed frequently to solve specific printing problems from students' own printers or the professional labs they use. Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar).

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$712.54

★ **Photography and Digital Imaging** **CDFP 333**

An introduction to photographic technologies and concepts related to digital printing. Students will acquire skills related to a range of creative ideas about images, while gaining a basic understanding of the concepts of lens-based image-making. Emphasis will be placed on learning the core principles of photographic technology as well as fundamental visual skills for photographers. By the end of the course, students will have acquired a working knowledge of basic tools, capture, printing, and workflow. (Equivalent to MPS 107.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$667.98

NEW

❖ **Document to Documentary I** **CDFP 350**

In this workshop, we'll explore various approaches to documentary. Students will work on one project (which may be partially done or just begun), concentrating on creating images of high quality within the context of a narrative. We will critique the work weekly, look at examples of professional documentary photographers, and discuss issues around ethics as well as technical problem-solving.

Note: Instructor: Ruth Kaplan (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours HST included Fee: \$224.28

NEW

❖ **Digital B&W Photography** **CDFP 355**

This is an introductory course in creating effective digital black-and-white images. The photographer must pay extra attention to tonality, lighting, composition, and contrast to guide the viewers eye. Class will discuss methods of producing monochromatic imagery, visualizing a scene in black and white, and fine-tuning exposure.

Note: Instructor: Rob Davidson (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours HST included Fee: \$224.28

★ **Photography and the Web** **CDFP 358**

An entry-level workshop course in which students will begin to acquire the basic skills related to the hardware and software required for web image production. Tools, applications, and creative methods in making photographic images in a screen-based environment using digital applications are covered. Emphasis is on cross-disciplinary instruction in an inter-media working environment. Students will initially explore the context of time-based and moving-image systems, digital imaging, electronic sound, image formation, recording, and sequencing. (Equivalent to MPS 207.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$667.98

❖ **Photoshop for Photographers** **CDFP 367**

A workshop course designed for the serious photographer wants to learn retouching and image enhancement techniques using Adobe Photoshop. Topics covered include techniques for skin retouching; adding sparkle to the eyes; careful use of the Liquefy Tool for slimming; balancing faces using selection and masking techniques; using layer blending modes; and compositing elements from different shots, as used in still life and fashion shooting, high dynamic range, panoramas, etc.

Note: Students must have a working knowledge of Photoshop CS3 or later versions.

To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$680.45

NEW**❖ Document to Documentary II CDFP 373**

In this workshop, we will take the work shot in Part I and discuss the best platform for presentation - book, slide show, prints, installation - to complete the project. We will edit, sequence, and produce the projects so that it is ready for public viewing.

Note: It is recommended that CDFP 350 be completed before enrolling in this course.

Instructor: Ruth Kaplan (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours HST included Fee: \$224.28

★ 20th Century Photography CDFP 378

Prerequisite(s): CDFP 320 or CDFP 328

This workshop format course is for advanced students who wish to gain more knowledge in the studio and darkroom facilities using traditional silver-based materials. Students will learn how to handle the 4 × 5 view camera using sheet film to make incredibly sharp large negatives and prints. Students will learn to process black and white film and hand print using archival methods. Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar).

Note: A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisites and who wish to take this course must contact the Academic Coordinator, Dennis Miles, at dmiles@ryerson.ca for more information.

To find out more about your instructor, see the Photography instructor biographies.

39 Hours Fee: \$667.98

★ Advanced Fashion Photography CDFP 381

Prerequisite(s): CDFP 329

This advanced workshop format course is for the serious fashion photographer. Students must have advanced camera, lighting, and Photoshop or Lightroom knowledge. They will be introduced to fashion styles and trends through both lighting and shooting. Industry standards and sources for selling and exhibiting fashion photographs will also be addressed. Under the instructor's guidance, students will work with models and make-up artists. Student work will be discussed in group critique sessions. Equivalent to one Professional elective from Table I (see Undergraduate Program Calendar).

Note: A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisites and who wish to take this course must contact the instructor, Struan, at struan@struanphoto.com (www.struanfoto.com) or Dennis Miles, Academic Coordinator, at dmiles@ryerson.ca for more information.

To find out more about your instructor, see the Photography instructor biographies.

Students must have a DSLR camera with lenses ranging from 35mm to 105mm, a light meter, and a radio slave unit. They should also bring their laptops to class.

39 Hours Fee: \$803.78

★ Advanced Portrait Photography CDFP 382

Prerequisite(s): CDFP 329

This workshop format course is for the serious amateur or aspiring professional portrait photographer. It is an advanced course concerned with an in-depth look at portrait photography. Emphasis will be on developing and refining your techniques in a variety of settings and lighting conditions. Projects will examine critical and aesthetic issues in portrait photography from singles to large groups, under studio and location settings. Both traditional and digital photography will be covered. Equivalent to one Professionally Related elective in Image Arts from Table I (See Undergraduate Program Calendar).

Note: To find out more about your instructor, see the Photography instructor biographies.

Students must have a DSLR camera with lenses ranging from 35mm to 105mm, a light meter (if using film), and a radio slave unit or flash sync cord. Those shooting digitally should also bring their laptops to class.

39 Hours Fee: \$690.26

NEW**❖ Pinhole Digital Images CDFP 388**

First we make a pinhole and then attach it to your digital camera, then we calculate the exposure, and then we create! The very first camera had a pinhole for a lens. Think of the creative possibilities!

Note: Instructor: Rob Davidson (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours HST included Fee: \$224.28

★ Studio Lighting I CDFP 389

Prerequisite(s): CDFP 329

This course offers an intensive investigation into all aspects of studio lighting photography. The course consists of a series of lectures, critiques, and extensive studio sessions learning the basic techniques. Particular attention is paid to controlled lighting, precise exposure, and the techniques of electronic flash as they apply to studio photography. Emphasis is placed on learning to balance compositional elements within the frame to produce an articulate photograph. Other topics include filters, special effects, and an introduction to the business of commercial photography. Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar). (Formerly Commercial Photography I)

Note: To find out more about your instructor, see the Photography instructor biographies.

Students must own or have access to a digital interchangeable lens camera with at least 10 megapixels and at least one lens in the "normal" to moderate telephoto range (equivalent to 50mm to 90mm on full frame sensor).

39 Hours Fee: \$596.90

★ Studio Lighting II

CDFP 390

Prerequisite(s): CDFP 389

This course continues the investigation of the techniques and approaches to studio lighting begun in CDFP 389 (see the calendar description). Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar). (Formerly Commerical Photography II)

Note: A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisites and who wish to take this course must contact the Instructor, Rob Davidson, at rob@rdaphoto.com or Academic Coordinator, Dennis Miles, at dmiles@ryerson.ca for more information.

To find out more about your instructor, see the Photography instructor biographies.

Students must own or have access to a digital interchangeable lens camera with at least 10 megapixels and at least one lens in the “normal” to moderate telephoto range (equivalent to 50mm to 90mm on full frame sensor).

39 Hours

Fee: \$619.89

★ History of Photography I

CDFP 391

Students will study the evolution of photography, from the early experiments with light sensitivity of silver salts to the establishment of portable photographic technologies. A historical overview of the medium's development from both technical and stylistic viewpoints will be examined. The course traces the development and positioning of the photographic medium within the context of modernist expression, from early attempts to contextualize photography as art, to the development of small format, handheld cameras. Cultural writings about photography will also be investigated, in relation to broader historical, theoretical, and political considerations. (Equivalent to MPS 301.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours

Fee: \$593.72

★ Documentary Photography

CDFP 392

This workshop course is designed to introduce students to ideas and methods of producing documentary photographs and portfolios. The course includes instruction in practical techniques (effective metering, flash, etc.), as well as an exploration of the history and vocabulary of documentary photography. The goal is the production of a documentary portfolio (prints, books, or digital slide show ready for a professional venue). Equivalent to one Professionally Related elective in Image Arts from Table I (see Undergraduate Program Calendar). (Formerly Approaches to Documentary Photography)

Note: To find out more about your instructor, see the Photography instructor biographies.

Not offered in fall/winter/spring 2015–2016. Supplies to be purchased by the student: Suitable camera (any format), or access to one, and printing supplies.

39 Hours

Fee: \$671.90

★ History of Photography II

CDFP 398

Prerequisite(s): CDFP 391

This course continues the investigation started in CDFP 391 and examines the development of photographic practice throughout the course of the twentieth century. Different genres of photography will be explored, from approaches to documentary and landscape photography, to the development of conceptual and theoretical ideas at play in contemporary photographic expression. Discussion of the major figures and influences in photography will be supplemented by an examination of the development of traditional photographic processes and digital technology. (Equivalent to MPS 401.)

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours

Fee: \$593.72

🌀 Creative Wedding Photography

CDFP 403

Prerequisite(s): CDFP 329

This course introduces essential photographic and business skills required by a wedding, event, and portrait photographer. Through lectures, practice shoots, and assignments, students will learn how to enter the freelance photography field, choose the right equipment, deal with clients, be prepared to handle various lighting situations, and develop a portfolio.

Note: To find out more about your instructor, see the Photography instructor biographies.

39 Hours

Fee: \$744.05

🌀 Magazine/Editorial Photography

CDFP 404

Prerequisite(s): CDFP 329

The successful assignment requires research, execution, the appropriate lenses and accessories, objective editing, and a compelling choice of media output. Today's sophisticated viewers expectations are higher than ever before. Images must be more communicative, articulate, and artistic in both content and presentation. This results-oriented course will concentrate on preparing, executing, and presenting the successful photo essay, utilizing contemporary output and display formats. (Formerly Photography Assignments)

Note: To find out more about your instructor, see the Photography instructor biographies.

Students must have an interchangeable lens digital camera.

39 Hours

Fee: \$744.05

🌀 Architectural Photography

CDFP 405

Prerequisite(s): CDFP 329 or CDFP 384

This course will teach both the history and development and practice of architectural photography. The emphasis will be on practical method and skill development through creation and technique.

Note: To find out more about your instructor, see the Photography instructor biographies.

Students must have an interchangeable lens digital camera.

39 Hours

Fee: \$744.05

📷 Studio Lighting III

CDFP 415

Prerequisite(s): CDFP 390

This course continues the investigation of the techniques and approaches to CDFP 390 (see the calendar description). In addition to exploring more advanced studio lighting, students will also explore the use of flash lighting combined with ambient light outside of the studio environment.

Note: A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisites and who wish to take this course must contact the Instructor, Rob Davidson, at rob@rdaphoto.com or Academic Coordinator, Dennis Miles, at dmiles@ryerson.ca for more information.

To find out more about your instructor, see the Photography instructor biographies.

Students must own or have access to a digital interchangeable lens camera with at least 10 megapixels and at least one lens in the “normal” to moderate telephoto range (equivalent to 50mm to 90mm on full frame sensor).

39 Hours

Fee: \$757.75

NEW

❖ Street Photography

CDFP 416

A hands-on workshop to learn how to explore the street culture of Toronto with your camera. This workshop will include a brief introduction to the history and methodology of great street photographers. Then students and instructor will “take to the streets”, exploring and learning how to take impactful street photographs. On a separate day, students will submit a selection of their work for a group review and discussion.

Note: Instructor: Larry Frank (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours

HST included

Fee: \$224.28

NEW

❖ Night Photography

CDFP 417

We meet in the first class to discuss what night photography is all about. We will discuss types of exposure and techniques. Next we plan a field trip as to where we will go as a group. Evaluate the results and another field trip and then discussion and critique.

Note: Instructor: Henry Gordillo (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours

HST included

Fee: \$224.28

NEW

❖ Landscape Photography

CDFP 418

This course will explore the elements of composition and light that contribute to a successful and evocative landscape photograph. Through a combination of lecture, field trip, and critiques, you will develop a deeper understanding of landscape photography.

18 Hours

HST included

Fee: \$336.43

NEW

❖ Exploring Toronto Landscapes

CDFP 419

Explore the diversity and variety of Toronto’s urban landscape with your camera. Learn some of the rich history of urban photography from Atget to Joel Meyerowitz, and how you can apply the techniques of these masters to your own work. This course will include lecture, field trip, and critiques, to guide you to produce a final body of work.

18 Hours

HST included

Fee: \$336.43

NEW

❖ Making a Photographic Book

CDFP 420

The intention of this workshop is to produce a photographic book. Students will shoot a project or use an existing body of work, learn about editing, sequencing and design, and have the book printed. We will focus on creating a narrative both conceptually and visually, examine how the experience of a book differs from other forms, and experiment with various approaches to achieve an object of high quality.

Note: Instructor: Ruth Kaplan (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

18 Hours

HST included

Fee: \$336.43

NEW

❖ The Interpretive Portrait

CDFP 421

Through the exploration of ideas, techniques, and photographic works, this course opens up conceptual and stylistic possibilities that will challenge the student to engage with and represent their subjects in fresher and more meaningful ways. A survey of photographers, whose visions range from traditional to experimental and conceptual, will be studied. Assigned projects with critiques will help the student to experiment with different working methods as they move to create their personal portrait styles.

Note: Instructor: Joel Benard (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

15 Hours

HST included

Fee: \$280.35

NEW

❖ Hollywood Style Portraits

CDFP 422

Think of a favourite glamour portrait from the Hollywood era of the 20s to the 50s. Now learn to use studio lights and the lighting used to create these wonderful images.

Note: Instructor: Iden Ford (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours

HST included

Fee: \$224.28

NEW

❖ The Portable Portrait Flash

CDFP 423

Learn to use that “on-camera flash” (that’s probably ignored in your closet somewhere). With a few simple and inexpensive accessories you can make a portable studio for on location studio-like portraits. This will be a hands-on demo and shooting course using your own camera and flash.

Note: Instructor: Sam Sciarrino (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours

HST included

Fee: \$224.28

NEW

❖ Smartphones as a Fine Art Tool

CDFP 925

Think of the Diana, Holga, and the LensBaby. Now think of the Smartphone as a fun imaging system. Your Smartphone is a powerful creative tool for making art; now explore the powerful opportunities of your Smartphone.

Note: Instructor: Wayne Dunkley (Fall 2015). To find out more about your instructor, see the Photography instructor biographies.

12 Hours

HST included

Fee: \$224.28

PHYSICAL ACTIVITY

These courses will impart the critical physical activity knowledge and hands-on skills required to promote, assess, and develop physical activity approaches for individuals, families, and communities.

Physical Activity

Related certificate(s): Physical Activity: Assessment and Promotion

★ Health and Physical Activity

CFNA 100

Prerequisite(s): PLN 203

This course will discuss the determinants of health and physical activity, focusing on the specific physical activity-health connection. The course will examine the epidemiologic trends of physical activity and fitness, with special emphasis on the active living movement, health risk analysis and evaluation in North American populations.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

★ Lifestyle and Fitness Assessment

CFNA 201

Prerequisite(s): CFNA 100 and CPLN 303 and FNP 300, Corequisite FNN 400

This course will discuss theoretical and practical health-related fitness evaluation. Methods of physical activity participation and lifestyle habit evaluation will be reviewed. The topic of body composition will be emphasized, describing assessment by a variety of methods and discussing the contexts of the different measurements. Musculoskeletal fitness assessment will be discussed and practiced.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

★ Physical Activity and the Environment

CFNA 202

Prerequisite(s): CFNA 100

The emerging research regarding the built environment's impact on health will be critically examined within a small group format. Specifically urban ecology and design, and adaptive planning and policy will be explored as it related to physical engagement and the current body weight discourse. Both social and environmental circumstances will inform the framework of this course.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

★ Nutrition and Physical Activity

CFNA 300

Prerequisite(s): FNN 201 and PLN 203

The course will discuss the special nutritional needs and practices of active individuals. The course will focus on various levels of activity, discussing the metabolic needs and adaptations to the different levels of stress and types of activity. A variety of sports will be examined through the perspective of nutritional requirements and adjustments.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

★ Exercise Intervention

CFNA 301

Prerequisite(s): CFNA 201

This course will discuss the significance and describe the incremental value of exercise intervention with a focus on health related fitness outcomes. Students will receive theoretical and practical instruction on physical activity and exercise prescription, training techniques, and methods, as well as program modification.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

★ Exercise Science and Physiology

CPLN 303

Prerequisite(s): PLN 203

The course will discuss the various mechanisms and principles of the body's acute responses to different levels of physical activity. The course will focus on the essentials of movement and the functionality of the musculoskeletal system, on the impact of exercise on basic energy systems, and on the cardiorespiratory function and performance.

Note: This course is restricted to students currently enrolled in a Food and Nutrition degree or equivalent or who have graduated from a Food and Nutrition program or equivalent. Permission may be granted with specific academic/professional experience by contacting the program coordinator at m1johnso@ryerson.ca prior to enrolling in this course.

39 Hours

Fee: \$593.72

🔄 Anatomy

CVPA 200

In this course, the essentials of anatomy are presented, including an overview of the organization and structure of the body. Systems are examined with particular attention to skeletal and muscular organization as this applies to physical activity.

30 Hours

Fee: \$418.28

PHYSICS

These introductory courses in physics have applications across a wide variety of professional fields. A basic understanding of the principles of physics is an important step in your understanding of science.

Physics I

CKPS 115

Meets the Grade 12 U Physics requirement for admission to a Ryerson program. Introductory physics. Kinematics in one and two dimensions, dynamics, gravitation. Work, power, and energy. Heat quantities. This course is laboratory and problems oriented. Equivalent to the first half of PCS 15A/B.

Note: An Academic Bridging Course. Both CKPS 115 and CKPS 215 are required to meet the Grade 12 U Physics requirement for Ryerson admission purposes. Please note that Mature Student applicants will be considered on an individual basis and may be required to present only one of these courses to meet Mature Student Physics admission requirements. Please contact Undergraduate Admissions and Recruitment for details.

52 Hours

Fee: \$789.26

Physics II

CKPS 215

This course is a continuation of CKPS 115. Fluids, basic electricity. Waves and optics. Atomic and nuclear physics. This course is laboratory and problems oriented. Equivalent to the second half of PCS 15A/B.

Note: An Academic Bridging Course. Both CKPS 115 and CKPS 215 are required to meet the Grade 12 U Physics requirement for Ryerson admission purposes. Please note that Mature Student applicants will be considered on an individual basis and may be required to present only one of these courses to meet Mature Student Physics admission requirements. Please contact Undergraduate Admissions and Recruitment for details.

52 Hours

Fee: \$789.26

☆ Physics for the Health Sciences

CPCS 106

An introduction to the physical ideas related to the fields of environmental and occupational health; mechanics, work/energy, fluids, sound, thermodynamics, basic electricity, the electromagnetic spectrum and nuclear quantities.

Note: This course includes a lab.

52 Hours

Fee: \$983.07

★ Physics

CPCS 110

Units and vectors. Motion: linear, projectile, circular and oscillatory motion. Newton's laws: Force, mass and acceleration; work, energy and power; linear and angular momentum. Electrostatics: Electric force and field; potential and potential energy; capacitance. Electric current and DC circuits. Magnetic field and force: magnetic force on currents and charges; Hall effect; torque on current loops; Waves: classification of waves; energy transfer; light and electromagnetic waves; diffraction and interference. MAPLE used for simulation/visualization of physical phenomena and problem solving.

Note: This course includes a lab.

52 Hours

Fee: \$809.08

★ Physics I

CPCS 120

Antirequisite(s): CPCS 125 and CPCS 211

A calculus based course covering fundamental physics concepts: units, vectors, linear motion, circular motion, force and motion, work and energy, collisions, gravitation, electrostatics, capacitance, and simple DC circuits.

Note: This course includes a lab.

65 Hours

Fee: \$987.31

★ Physics II

CPCS 130

Prerequisite(s): CPCS 120;

Antirequisite(s): CPCS 125 and CPCS 211 and (PCS 102 or SCI 104)

A continuation of Physics I, calculus-based course. An introduction to oscillations, mechanical waves, magnetism, electromagnetism, optics and nuclear physics. The laboratory is an essential and autonomous part of the course.

78 Hours

Fee: \$1266.33

☆ Introduction to Astronomy

CPCS 181

This course will examine astronomical ideas both in relation to their times and in the light of current scientific theory and technical data. Application of the scientific method will be emphasized in evaluating these data and theories. Method of collection and analysis of data will be presented to help the nontechnical student in asking fundamental questions about scientific theories. Topics covered include cosmology, origin of the stars and galaxies, evolution of stars, the solar system, exobiology, death of stars, stellar remnants and the age of the universe. (LL)

39 Hours

Fee: \$612.82

NEW

☆ Advanced Topics in Astronomy

CPCS 581

Prerequisite(s): CPCS 181 or PCS 510

The scientific method of investigation will be applied to an in-depth presentation of contemporary astronomical research on cosmology, parallel universes, white dwarfs, neutron stars, black holes, wormholes, Dark Matter, galaxy formation and evolution, Dark Energy, exobiology, the Drake equation and related topics. (UL)

39 Hours

Fee: \$611.97

POLITICS AND PUBLIC ADMINISTRATION

The Department of Politics and Public Administration offers a full-time undergraduate program in Politics and Governance and a part-time undergraduate program in Public Administration and Governance, the latter of which consists of a certificate, advanced certificate, and a degree. This program is specifically designed for people working in the public and para-public sectors, nongovernmental organizations and advocacy groups. These courses may also be of interest to those aspiring to careers in the broader public service, private-sector employees in regular contact with the government, and those interested in gaining knowledge about public administration and public policy in Canada.

Politics and Public Administration

Related certificate(s): Aboriginal Knowledges and Experiences, Ethics, Nursing Leadership and Management, Advanced, Occupational Health and Safety, Public Administration and Governance, Public Administration and Governance, Advanced, Public Administration and Leadership, Social Sciences and Humanities Foundations

📍 Public Administration in Canada

COPA 103

Students with no academic background or professional experience in public administration, but who already have a degree from a recognized university, are required to successfully complete this one-semester, specially designed immersion course in public administration as a requirement of admission to the post-baccalaureate Certificate in Public Administration and Leadership. This course offers a concentrated introduction to concepts of public administration; the rule of law; the machinery of government; the relationship between the state and the citizen; political and administrative accountability; the structure and process of policy formulation, implementation and evaluation; intergovernmental relations; the budgetary process; issues in personnel management; and E-government.

39 Hours

Fee: \$811.32

★ People, Power and Politics

CPOG 100

This course provides a critical introduction to the main themes in the study of politics, including state-building, nationalism, ideology, democracy, participation, development, security and globalization. We focus on the interrelated struggle for power and justice that lies at the heart of politics, raising questions crucial to informed, engaged citizenship: How do we define the “common good?” Who should wield power and why? How should power be shared? How should we resist the misuse of power?

39 Hours

Fee: \$646.77

★ Power and Influence in Canadian Politics

CPOG 110

Antirequisite(s): POC 180 and POL 102 and CPPA 120

Against a backdrop of political culture, ideology, regionalism, French-English relations and socio-economic differences this course will examine citizen participation in Canadian democracy through parliamentary and extra-parliamentary mechanisms. In particular, the course introduces the central components of the contemporary Canadian political system most visible to citizens: political parties, elections, the media and pressure/interest groups. (Canadian)

39 Hours

Fee: \$590.54

☆ Canadian-American Relations

CPOG 417

Prerequisite(s): CPOG 210 or (POL 101 and POL 102) or CPOL 27B or CPOL 332 or CPPA 120

This course provides a comparative analysis of US and Canadian politics and of international relations between the two countries. To this end, it explores the comparative history and political cultures of the two countries; the institutions of their respective political systems; elections, political parties and voting; regionalism; federalism; public policies; and specific Canadian-American issues like free trade, climate change, national security and the war against terrorism, Arctic sovereignty and other current topics. (Canadian)

39 Hours

Fee: \$576.75

★ Human Rights and Global Politics

CPOG 424

Prerequisite(s): POG 225 or CPOG 315 or CPOL 208 or CPOL 540 or CPPA 125

Should universal human rights be considered a global norm? Or should concerns of national sovereignty and cultural pluralism take precedence? Discourses of human rights are powerful and ubiquitous and are used in many varied and complex ways in the contemporary world. This course will examine the historical emergence of human rights discourses in the West, their institutionalization, and their deployment in the contexts of the Cold War and the war on terror. A range of theories, critiques, and contemporary debates about human rights will be explored. (Global)

39 Hours

Fee: \$576.75

☆ Politics, Media and Technology

CPOG 444

Prerequisite(s): POG 240

The mass media has transformed how societies communicate about, and perceive, political ideas. This course examines the interplay of media, technology and politics, discussing such topics as the relationship between print and the rise of modern democracy; the impacts of television on contemporary politics, especially election campaigns; and the emerging political influences of the Internet and social media. The course will also analyze the structure of ownership of global media systems and its impact on international communications. (Comparative)

39 Hours

Fee: \$576.75

☆ The Politics of Human Needs

CPOL 106

The central consideration of politics in general is the attainment of the ‘good society’. Examining how fundamental human values shape the political institutions that we create, this course adopts a ‘human needs approach’ to politics. Identifying the basic needs of humans, the course investigates how well or poorly countries are able to provide for those human needs. It compares and contrasts the varying approaches to wealth creation and wealth distribution currently populating the world system. (LL)

39 Hours

Fee: \$595.84

☆ Politics and Film

CPOL 128

Films often mirror society in both intentional and unintentional ways. Some are overtly political, some reflect changing values and some are made purely for entertainment. This course will reflect on the various political perspectives which enable students to critically assess films. It will assess the role films play in reinforcing or debunking stereotypes. These themes will be examined in the context of the film industry in Canada and internationally. (LL)

39 Hours

Fee: \$595.84

☆ **Globalization and World Politics** CPOL 208

Antirequisite(s): POG 225

This course examines political conflict and instability in world politics. What are the political consequences of globalization? Why is nationalism and ethnic intolerance on the rise? What explains the eruption of political unrest and war? These issues are explored through current examples of political upheaval around the world. (POL 208 is not available for credit to students who choose POG 225.) (LL)

39 Hours

Fee: \$595.84

☆ **Canadian Politics and Social Policy** CPOL 220

Antirequisite(s): CPOG 210, POG 316, CPOL 27B, POL 120, POL 302, CPOL 332, CPPA 120

This course examines the development and role of social policy in Canada. A major theme is the ideas, values and beliefs which shaped income support, health care and education policy and the impact of the welfare state on individual well being and opportunity. The course will focus on the politics of social policy and the factors which have led to the erosion of the welfare state in Canada.

39 Hours

Fee: \$586.29

☆ **Women, Power and Politics** CPOL 501

Antirequisite(s): POG 442

Have women come a long way? What is feminism? How do racial minority, aboriginal, immigrant, or lesbian women differ in the way in which they prioritize political and social issues? What about the impact of religion, class and disability? This course examines public policies in Canada and elsewhere relating to women and work (the “glass ceiling”, gender segregated labour force, domestic labour), sexuality (harassment, violence), health (reproductive technology), family, and political representation. (UL)

39 Hours

Fee: \$585.23

☆ **Power, Change and Technology** CPOL 507

How does technology shape society? How does it shape us? On what basis are decisions made in a technological society? What type of future will modern technology create? Who is in control? This course will examine these questions and the impact of technology on cultural, economic and political life in modern society. The political implications of future developments in reproductive and biotechnologies, global communications, automation, etc. will be evaluated. (UL)

39 Hours

Fee: \$576.75

☆ **Issues in Third World Politics** CPOL 540

This course examines the ‘Third World’ and the structures of domination from colonization to the contemporary neoliberal order. The focus is on issues of global inequality, gender, ethnic, racial and religious inequality, human security, development and democracy, and the interventions of global and regional institutions. The course will also examine whether social and political movements in the Middle East, Asia, Latin America and Africa offer hopes to advance struggles for democracy and global justice. (UL)

39 Hours

Fee: \$570.38

☆ **Social Movements and Politics** CPOL 601

This course will examine social movements that effect political change, their historical roots, their international dimensions, and the ways in which they fit within the social movement literature. Students will be introduced to the major approaches and debates in the academic study of social movements. Emphasis will be placed on understanding social movements historically and in context, especially in view of developments in political economy, expansions/contractions in popular democracy, and the impact of information technologies. (UL)

39 Hours

Fee: \$587.35

★ **Politics of Technology and Globalization** CPOL 607

This course examines the role of technology within a global context. What will it mean to be part of a global audience, work in a global factory, shop in a global supermarket, be governed by a world government? Can technology help to solve problems of environmental depletion and pollution? What role does technology play in escalating militarism around the world? Can technology reduce the gap between the rich and the poor within nations and between nations? (UL)

39 Hours

Fee: \$576.75

★ **Cdn Public Administration I: Institutions** CPPA 101

This course looks at contemporary public administration in democratic society. It is examined in light of alternative methods of organization, including that of the private sector, as well as our fundamental requisites for democracy, such as the rule of law. It also examines the role of the machinery of government in maintaining the public system of administration as it undergoes contemporary attempts to restructure the role of the state under the ongoing demands of its leaders and citizenry. (Formerly PPA 322).

39 Hours

Fee: \$613.88

★ **Cdn Public Administration II: Processes** CPPA 102

Prerequisite(s): CPPA 101 or CPPA 322

This course introduces the process of leading and managing the public sector in Canada with an emphasis on the problems of political and administrative accountability. Students are introduced to the structure and process of policy formulation, implementation and evaluation; as well as to topics in intergovernmental relations; and the impact of public-private partnerships. The prime foci are the budgetary process, issues in personnel management and the drive for economies and efficiencies; government regulation, and e-government. (Formerly PPA 422.)

39 Hours

Fee: \$613.88

★ **Canadian Politics and Government** CPPA 120

Antirequisite(s): CPOG 110, CPOG 210, CPOL 27A/B, POL 101, POL 102, CPOL 220, CPOL 332

In analyzing Canada’s federal political system, this course assesses the ideas, interests and institutions that help define the limits of both state and societal power. It will provide students with a clear understanding of the workings of the system of governance guiding their everyday lives as citizens and as professionals. Topics include political culture and ideas; the social and economic context; and the constitutional and institutional mechanisms of governance. (Formerly POL 302, POL332)

39 Hours

Fee: \$613.88

<p>★ Ontario Politics and Government CPPA 121 <i>Antirequisite(s): CPOG 310 (formerly PPA 522)</i></p> <p>The Government of Ontario plays a central role in the lives of Ontarians, taking responsibility for such things as health, education, transportation, and municipal governments. It is also a major player in the economies of the province and the country. This course examines the structure and operation of the Ontario government, as well as the ideological, economic, social, and political forces at work in the making and operating of the government.</p> <p>39 Hours Fee: \$613.88</p>	<p>★ Theories of the State CPPA 235</p> <p>This course examines major theoretical perspectives on modern industrial states, including pluralism, neoliberalism, Marxism and feminism. An effort is made to relate each perspective to relevant political issues of the day. In the final section of the course a number of thematic issues are considered from the perspective of state theory such as the role of social movements in shaping state policies and the impact of globalization on democracy and the viability of the nation-state. (Formerly PPA 525).</p> <p>39 Hours Fee: \$613.88</p>
<p>★ Local Politics and Government CPPA 122 <i>Antirequisite(s): POL 123, POG 410</i></p> <p>This course examines the structures that influence local government decision-making. A significant amount of the material will draw from the Greater Toronto Area (GTA); however, relevant examples from other jurisdictions within Canada will be discussed. Weekly topics include: the history of local/municipal government, democracy versus efficiency, urbanization, political and administrative structures, finance, sustainable cities, and the role of major stakeholders such as business, labour, and citizens groups in the municipal arena.</p> <p>39 Hours Fee: \$613.88</p>	<p>★ Administrative Law CPPA 301 <i>Antirequisite(s): CPPA 702</i></p> <p>This course examines the statutory and regulatory basis of Canadian public administration. The course explores existing techniques of control of delegated power and their role in influencing conduct. It analyses the regulatory function of administration, as well as the institutional and procedural characteristics and practices of administrative tribunals and judicial review. (Formerly PPA 629).</p> <p>39 Hours Fee: \$613.88</p>
<p>★ Indigenous Politics and Governance CPPA 124 <i>Antirequisite(s): CRM 400 and CPOG 440</i></p> <p>This course examines the social, political, legal, and historical context of Indigenous peoples in Canada and their political mobilization. Through an exploration of key challenges, flash points, and current issues, the course will foster a better understanding of Indigenous efforts around self-government, nation-building, recognition/implementation of Aboriginal and treaty rights, land claims, and the socio-economic gap that disadvantages Indigenous peoples in Canada.</p> <p>39 Hours Fee: \$613.88</p>	<p>★ Financial Management CPPA 303 <i>Prerequisite(s): CPPA 102 or CPPA 422</i></p> <p>This course will provide students with an overview of public sector planning and budgetary processes, the financial management systems within governmental organizations, and mechanisms for ensuring accountability. Changing structures of accountability and the merging of private and public sector budgeting, planning and management principles will be critically evaluated. Students will also be given hands on training in accessing the financial and budgetary information relevant to public and parapublic organizations. (Formerly PPA 600).</p> <p>39 Hours Fee: \$613.88</p>
<p>★ Rights, Equity and the State CPPA 125 <i>Antirequisite(s): CPOG 315</i></p> <p>This course provides a critical examination of how the State manages the issue of human rights. It explores the development of human rights through the Charter of Rights and Freedoms; the Canada Human Rights Act; provincial codes; landmark judicial rulings; and the impact of United Nations conventions, covenants and declarations on Canadian state practices. Students are encouraged to situate an understanding of human rights issues within a broader social, political, economic and public administration framework.</p> <p>39 Hours Fee: \$613.88</p>	<p>★ Politics of Work and Labour CPPA 319</p> <p>This course examines how labour, employers and government interact to regulate how Canadians work. Students will acquire an enriched understanding of the employment environment in their career field. An historical context is first established to explain the evolution of work, unions and government labour policy in Canada. The course then examines the legislative framework before exploring such controversial employment issues as union organising, public sector collective bargaining, strikes, minimum wage, overtime, and health and safety issues. (Formerly POG 319).</p> <p>39 Hours Fee: \$613.88</p>
<p>★ Public Policy CPPA 211 <i>Prerequisite(s): CPPA 102 or CPPA 422;</i> <i>Antirequisite(s): POG 214, POG 314</i></p> <p>This course offers both a thematic and a practical introduction to the Canadian public policy-making process, beginning with the context in which ideas, institutions and interests inform public policy. With the use of a variety of contemporary social, economic and environment policy cases, the course examines the process by which public policy is formulated, implemented and evaluated - including its success rate. Lastly, the changing nature of, and contemporary challenges to, policy making are explored. (Formerly PPA 623).</p> <p>39 Hours Fee: \$613.88</p>	<p>★ Research Methods in Public Administration CPPA 333 <i>Antirequisite(s): CACS 401, CPOG 230</i></p> <p>This is a one-semester course utilizing both lecture and lab experience. No familiarity with the fundamental elements of research or statistics is assumed. The course gives students of public administration the practical methods needed to statistically describe and analyze phenomena and to present those results. Emphasis throughout the course is on practical uses and application of these techniques, rather than on their mathematical derivations. (Formerly PPA 524).</p> <p>39 Hours Fee: \$613.88</p>

- ★ **Theories of Bureaucracy** **CPPA 335**
Prerequisite(s): CPPA 102 or CPPA 422
 This course surveys different approaches to organization and bureaucracy in advanced industrial societies. The major focus is on the exercise of power and control in organizations and the implications of this for different organizational groups. The course also examines a number of areas about which traditional approaches have been relatively silent, especially those dealing with race, gender and class. Another major theme of the course involves analysis of the changing nature of work, focusing on how new information technologies have affected the distribution of power and control in the workplace. (Formerly PPA 624).
 39 Hours Fee: \$613.88
- ★ **Issues in Public Administration** **CPPA 404**
Prerequisite(s): CPPA 102 or CPPA 422;
Antirequisite(s): CPPA 704
 This course responds to key issues in today's rapidly evolving public sector. Students will examine key issues in Canadian and comparative context. Using applied and theoretical reading, class discussions, case studies and presentations from guests who are experienced practitioners at all levels of government, the course emphasizes issue analysis in the context of public sector change and reform. Consequently, the issues covered by this course will change from year to year. (Formerly PPA 604).
 39 Hours Fee: \$613.88
- ★ **Collaborative Governance** **CPPA 401**
Prerequisite(s): CPPA 102 or CPPA 422 or CPOG 210;
Antirequisite(s): CPPA 701
 This course examines the expanding use of "partnerships" between government and other agents, both public and private, in the delivery of "public goods". Challenged by fiscal pressures and demands for more involvement in policy-making and delivery of services, governments have experimented with new mechanisms ranging from integrated procurement to networked regulation. This course will consider the ideological drivers, management practices and consequences of these new administrative arrangements on governance, public administration and democracy. (Formerly PPA 601).
 39 Hours Fee: \$613.88
- ★ **Comparative Public Policy** **CPPA 414**
Prerequisite(s): POG 214 or POG 314 or CPPA 211 or CPPA 623;
Antirequisite(s): CPPA 700
 Contemporary public policy is inherently comparative in nature. Policy advisors, decision-makers and citizens are increasingly exposed to the policies of other jurisdictions. They are also increasingly prone to use this information to settle policy disputes. Comparisons of several countries and policies are used in order to better understand the nature of policy making in general. These countries and policies may vary from year to year in order to study current policy issues.
 39 Hours Fee: \$613.88
- ★ **Program Planning and Evaluation** **CPPA 402**
Prerequisite(s): CPPA 102 or CPPA 422
 When governments choose to intervene in a policy area, they create programs. This course examines the process by which planning and evaluation of government programs takes place and explores the various methods that are used to determine whether programs are achieving their objectives. Programs in a broad range of areas will be examined, including health, criminal justice, education, welfare, environment, housing, poverty, and development. (Formerly PPA 602).
 39 Hours Fee: \$613.88
- ★ **Intergovernmental Relations** **CPPA 425**
Prerequisite(s): CPPA 102 or CPPA 422 or (CPOG 110 and CPOG 210) or CPOL 332 or CPPA 120;
Antirequisite(s): POG 416
 This course examines both the formal and informal relations between the federal and provincial governments of Canada, as well as the effect these relations have on Canadian politics and public policies. Themes include national unity and regional diversity, elite decision making and democratic participation, the Aboriginal question, Quebec separation, and the effects of federal/provincial turf wars on social, environment and economic policies and programs. The course culminates in a 1st Minister's Conference simulation. (Formerly PPA 650).
 39 Hours Fee: \$613.88
- ★ **e-Government** **CPPA 403**
Prerequisite(s): CPPA 102 or CPPA 422 or CPOG 100
 Deployment of information and communication technologies (ICTs) in public administration has influenced the state's internal operations, modes of service delivery, and interactions between the state and society. The course examines e-government policy, e-administration, e-service, and e-democracy. It also investigates key challenges e-government faces: privacy and security, digital divide, and legal infrastructure. (Formerly POG413).
 39 Hours Fee: \$613.88
- ★ **Public Sector Leadership** **CPPA 501**
Prerequisite(s): CPPA 211 and CPPA 404
 This course will offer an overview of literature in public sector leadership in a comparative context (Canadian, other Westminster systems, republican regimes), and include the opportunity to hear and meet public sector leaders who have experienced leadership first-hand. The capstone assignment will focus on leadership in a chosen field of inquiry. Designed for students in the post-baccalaureate Certificate in Public Administration and Leadership, this course should be attempted by undergraduate students only upon completion of all undergraduate program courses.
 39 Hours Fee: \$643.58

PROGRAM AND PORTFOLIO MANAGEMENT

These courses cover the distinct body of knowledge, skills, and strategies relevant to managing multiple projects and programs.

Program and Portfolio Management

Related certificate(s): Program and Portfolio Management, Project Management

Overview of Program Management

CKPP 110

Prerequisite(s): Department consent

This course will review the meaning and significance of a program, as well as the specialized processes and techniques required to manage a program, such as program monitoring, measurement and control, managing change, risk management, objective achievement and program leadership.

19.5 Hours

Fee: \$525.61

Overview of Portfolio Management

CKPP 120

Prerequisite(s): Department consent

This course will review the meaning and significance of a portfolio, as well as the specialized processes and techniques required to manage a portfolio, such as project and program selection, communication, risk, and portfolio balancing.

19.5 Hours

Fee: \$525.61

Program and Portfolio Governance

CKPP 130

Prerequisite(s): CKPP 110 or CKPP 120

This course will investigate Project/Program/Portfolio Management Office (PMO) paradigms, as well as the concept of organizational maturity and how it can be effectively used to deliver projects. The course will also review the roles and responsibilities of management, sponsors, internal committees, and other stakeholders in project and program delivery.

19.5 Hours

Fee: \$479.10

Organizational Strategy Through Projects

CKPP 140

Prerequisite(s): CKPP 110 or CKPP 120

Ultimately, the success of any organization can be measured by its ability to achieve its strategic plan. Projects are the means through which organizations 'get things done', while portfolios are the link between projects and strategy. This course will review the basic elements of strategic planning, how they are developed and maintained, and how organizations can use programs and projects to deliver strategic objectives.

19.5 Hours

Fee: \$479.10

Financial Measurements for Success

CKPP 210

Prerequisite(s): CKPP 110 and CKPP 120

Project success is typically measured as 'on time', 'on budget', and 'on scope'. However, the success of programs and portfolios is measured in terms of contribution to the organization, i.e., the achievement of strategic objectives or the advancement of their organization's strategic plan, including whether the program returned its investment, increased market share, improved customer satisfaction, or increased productivity. This course explores various metrics for calculating success, and how they can be used to effectively communicate the success of programs and portfolios to stakeholders.

19.5 Hours

Fee: \$476.94

Managing Programs and Projects Virtually

CKPP 220

Prerequisite(s): CKPP 110 and CKPP 120

Virtual teams are now common, but present challenges to most organizations. Traditional models of team building offer only anachronistic means for dealing with the increased complexity of managing global teams. This course looks at tools and techniques that will assist in project governance, team building, task coordination, scheduling, cost management, and other project-related areas for virtual teams.

19.5 Hours

Fee: \$502.90

Enterprise Risk Management

CKPP 230

Prerequisite(s): CKPP 110 and CKPP 120

This course is designed to fulfill the demand from organizations for advanced expertise in the critical area of enterprise risk management. Because programs and portfolios are becoming increasingly larger, more complex, and more globally diverse, risk management is a key factor in their success or failure. In this course, students will explore the identification, assessment, and appropriate response to enterprise risks including looking at brand, legal, and organizational risks.

19.5 Hours

Fee: \$476.94

Advanced Leadership Skills

CKPP 240

Prerequisite(s): CKPP 110 and CKPP 120

This course supports current and aspiring program and portfolio managers by cultivating communication, negotiation, group facilitation, conflict resolution, and stress management skills. Participants will identify their personal areas of strength and opportunities for growth through a series of tools and exercises, including an individual plan for development based on their needs and interests. This course allows participants to continually refresh and improve their interpersonal skills in a supportive environment, with constructive feedback and involvement from fellow professionals.

19.5 Hours

Fee: \$502.90

Leading Organizational Change

CKPP 250

Prerequisite(s): CKPP 110 or CKPP 120

Change is the only certainty in business. The globalization of business has accelerated organizational change over the last twenty years and will likely continue to do so well into the 21st Century. Projects and programs are used by organizations to implement change. This course is designed to understand what organizational change can mean to individual stakeholders within and outside of the organization. The course will provide tools and techniques to lead your team and organization through change.

19.5 Hours

Fee: \$476.94

✦ Creating Balanced Portfolios

CKPP 260

Prerequisite(s): CKPP 110 and CKPP 120

For portfolios to be successful, they must ensure that the organization's strategic objectives are achieved. The most critical element of a portfolio is to select the best group of projects and programs to be executed in the portfolio at a given time. This involves the careful balancing of numerous factors, including human and non-human resources, budget risk, timing, and priorities. This course will examine the techniques that can be used to select and prioritize project and programs for a portfolio, and to ensure that the portfolio is balanced across multiple dimensions.

19.5 Hours

Fee: \$476.94

✦ Crisis Management and Program Recovery

CKPP 270

Prerequisite(s): CKPP 110 or CKPP 120

This course examines the factors which contribute to project failure, and the ways in which project management processes can reduce their likelihood. Students will be equipped with tools and strategies for effective project management in public and private sectors, in addition to learning how projects can be used to advance an organization's strategic plan.

19.5 Hours

Fee: \$476.94

✦ Global Program Management

CKPP 280

Prerequisite(s): CKPP 110 or CKPP 120

Global programs are becoming more common. This course will examine the unique features of global project, such as working with international teams, measuring program success, defining program objectives, program monitoring, and control.

19.5 Hours

Fee: \$476.94

✦ Program and Portfolio Management Research

CKPP 310

Prerequisite(s): CKPP 110 or CKPP 120

Under the supervision of an industry expert, students will explore the scholarship surrounding a particular issue arising from program or portfolio management. Students will be encouraged to study issues relevant to their own workplace and career interests. Merits of this course include the unique learning benefits of in-depth study, self-selected and personally-relevant subject matter, as well as maximal scheduling flexibility. Students will be graded on the basis of either a literature review or a research paper, which they must have pre-approved by their course supervisor.

39 Hours

Fee: \$789.25

✦ Program and Portfolio Management Practicum

CKPP 320

Prerequisite(s): CKPP 110 or CKPP 120

In this practicum, students will consider the knowledge gained throughout the certificate in a practical environment. Students will spend time in a project management organization, exploring which project management theories work, which fail, as well as what skills and strategies might improve their host organization. Students will be assessed on the basis of a case study which they will prepare after acquiring pre-approval from their course supervisor.

39 Hours

Fee: \$789.25

PROGRAMS FOR 50+

Programs for 50+ at The Chang School offers unique non-credit programs to stimulate your personal enrichment, self-actualization, and a continuing connection to society in a community of like-minded people. Expand your learning, redefine your retirement, and be engaged as an older adult learner. Continue your education through a wide variety of courses and workshops for older adults, including off-campus programming. Choose from classes in dramatic arts, liberal arts, media arts, music arts, music arts, and Caring Clown, as well as workshop opportunities that explore the challenges of the mature worker in today's workforce. Join us at our annual 50+ Festival or year-round 50+ Festival Series offering a variety of thought-provoking and entertaining events including workshops and lectures, as well as cultural presentations (e.g., film, theatre, music). Get involved in a variety of community engagement opportunities for older adults.

ACT II STUDIO: Acting Skill Development

✦ Acting Without Text

CSAC 240

Prerequisite(s): CSAC 102 or CSAC 106

In-depth work with the most basic and simplest kind of acting using concepts of Zone of Silence, Intention, Action, Activity, and Environment. This important course will help you to be more playful, more truthful, and more present in dramatic situations.

Note: Instructor: Richard Beaune

12 Hours

HST included

Fee: \$201.65

✦ Meisner Technique I: Listening

CSAC 442

Prerequisite(s): CSAC 114

Sanford Meisner was the last of the great triumvirate (Stella Adler and Lee Strasberg are the other two) who pioneered Stanislavsky's system in America. His unique approach helps actors, "Live truthfully under imaginary circumstances". This course on the art of listening, focuses on the foundation of the technique and will increase concentration, promote relaxation in the actor and relieve self consciousness.

Note: Instructor: Cindy Christensen

12 Hours

HST included

Fee: \$201.65

✦ Meisner Technique II: Connection

CSAC 443

Prerequisite(s): CSAC 442

Meisner maintained that the actor should never do or say anything until something makes the action or words necessary. In part two of Meisner's technique, the Art of Connection, we will focus on the actor building their trust with working from an instinctual place with the other actor and the ability to connect through the actor's behaviour.

Note: Instructor: Cindy Christensen

14 Hours

HST included

Fee: \$237.55

❖ Meisner Technique III: Truth

CSAC 444

Prerequisite(s): CSAC 443

This section will focus on creating and bringing a vibrant and authentic inner emotional life to the work. It will build on the foundational principles of the first two courses and will introduce text work.

Note: Instructor: Cindy Christensen

14 Hours

HST included

Fee: \$236.38

NEW

❖ Meisner Technique IV: Text

CSAC 445

Prerequisite(s): CSAC 444

This course will focus on bringing text to life in an authentic, in the moment execution. It will build on the principals of the first three courses and will focus on practical application of the Meisner exercise work for use in scene work.

Note: Instructor: Cindy Christensen

14 Hours

HST included

Fee: \$236.38

NEW

❖ Basic Makeup Skills

CSAC 605

Learn to apply makeup for different stage and character needs. We'll cover basic foundations, eye make-up, lips, contouring, white face makeup, some special effects, compiling a basic stage makeup kit, and safe hygienic practices in applying and removing makeup. The instructor will provide basic makeup supplies and welcomes students to bring their own brushes, makeup and skin care products if they wish. Class limit: 20 students.

Note: Instructor: David Chandross

Supplies to be purchased by the student: An additional fee of \$5 will be collected in the first class to cover the costs of materials.

6 Hours

HST included

Fee: \$97.71

ACT II STUDIO: Clown and Comedy

❖ Introduction to Clown

CSAC 109

Antirequisite(s): CSCC 900

The clown touches on your most authentic self and is the basis of all acting. Discover your personal clown through games, improvisation and intuitive exercises meant to evoke a sense of fun. Learn to become keenly aware of your environment and develop an honest response to your impulses. Learn to interact with your audience with openness.

Note: Instructors: Vrenia Ivonoffski The instructor will have some noses for sale or bring your own.

12 Hours

HST included

Fee: \$201.65

❖ The Art of Comedy

CSAC 180

Prerequisite(s): CSAC 114

Discover what makes comedy work. We'll look at the elements of comedy - timing, rhythm, framing, intention, takes, physicality, character, and other skills. A variety of scripts from Sheridan to Neil Simon will be explored for their style and particular demands. During the hour lunch break, you'll rehearse with a scene partner. We'll then reconvene to view the scenes and discuss them.

Note: Instructor: Vrenia Ivonoffski

12 Hours

HST included

Fee: \$187.58

❖ Clown Cabaret

CSAC 209

Prerequisite(s): CSAC 109

This class will give you playing opportunities to explore and hone your unique clown character. From this we'll craft a short clown "turn" which expresses your clown's special relationship to the world. The class will culminate in a Clown Cabaret performance. Class limit: 9 students.

Note: Instructor: Vrenia Ivonoffski

12 Hours

HST included

Fee: \$201.65

ACT II STUDIO: Directing

❖ Directing: An Introduction

CSAC 127

Everything about directing from concepts to opening night. Also a valuable course for actors who want to know about the view from the other side.

Note: Instructor: Vrenia Ivonoffski

16 Hours

HST included

Fee: \$250.20

ACT II STUDIO: Improvisation

❖ Introduction to Improvisation

CSAC 182

Activate your imagination and learn to think on your feet. Limited to 16 students.

Note: Instructor: Katherine Ashby. Students who have completed CSAC 182 may take CSAC 282, CSAC 382, CSAC 482, or CSAC 582 in any order.

8 Hours

HST included

Fee: \$137.24

❖ Improvisation I: Fun and Games

CSAC 282

Prerequisite(s): CSAC 182

Finding the fun is the most important skill an improviser can have. We'll focus on finding the fun and releasing ourselves to play while brushing up on some old improv games and learning new ones. Limited to 16 students.

Note: Instructor: Katherine Ashby

14 Hours

HST included

Fee: \$237.55

❖ Improvisation II: Group Mind

CSAC 382

Prerequisite(s): CSAC 182 or CSAC 282

This magical workshop will use games, scene work, and music to lead you to work as a group with one mind - Group Mind. You will discover how to take the focus and pressure off of yourself and become part of a creative whole. Limited to 16 students.

Note: Instructor: Katherine Ashby

14 Hours

HST included

Fee: \$237.55

❖ Improvisation III: Character

CSAC 482

Prerequisite(s): CSAC 182 or CSAC 282

In this important class, we will focus on building characters emotionally, physically, and intellectually. You will find what works best for you and discover how this helps your improvisation work to become more exciting and creatively rich. Limited to 14 students.

Note: Instructor: Katherine Ashby

14 Hours

HST included

Fee: \$237.55

❖ **Improvisation IV: Making a Scene** **CSAC 582**

Prerequisite(s): CSAC 182 or CSAC 282

We will work on Long Form scenes, learning what to focus on in order to build a scene without the pressure to be funny. Limited to 14 students.

Note: Instructor: Katherine Ashby

14 Hours HST included Fee: \$237.55

ACT II STUDIO: Introductory Acting

❖ **Introduction to Acting I** **CSAC 101**

Discover the joy of acting in a playful, relaxed, and supportive environment. You'll stimulate your imagination, awaken your senses, develop your listening skills, and learn about stagecraft.

Note: Instructor: Vrenia Ivonoffski

12 Hours HST included Fee: \$158.36

❖ **Introduction to Acting II** **CSAC 102**

Prerequisite(s): CSAC 101

Discover the actor's basic tools for bringing text and characters to life, with a special session devoted to movement, breath, and voice.

Note: Instructors: Vrenia Ivonoffski and Liz Rappeport

15 Hours HST included Fee: \$200.59

❖ **Introduction to Scene Study** **CSAC 114**

Prerequisite(s): CSAC 102 or CSAC 106

Breathe life into text! Using David Mamet's 'Duck Variations' we'll analyze the text and explore motivation, character, structure, rhythm, and how to make interesting choices.

Note: Instructor: Vrenia Ivonoffski

12 Hours HST included Fee: \$176.31

ACT II STUDIO: Lectures/Forums for Theatre Lovers

❖ **Shaw Festival Preview** **CSAC 501**

These spirited lectures will enrich your theatre-going experience. Lectures on selected plays being offered this season at the Shaw Festival will be spiced with lively anecdotes, readings, short scene presentations, discussions, and background information on authors and theatre history. Enjoy some coffee, tea, and cookies and informal discussion during the half-time break.

Note: Instructor: Vrenia Ivonoffski

8 Hours HST included Fee: \$77.07

❖ **Stratford Festival Preview** **CSAC 502**

These spirited lectures will enrich your theatre-going experience. Lectures on selected plays being offered this season at the Stratford Festival will be spiced with lively anecdotes, readings, short scene presentations, discussions, and background information on authors and theatre history. Enjoy some coffee, tea, and cookies and informal discussion during the half-time break.

Note: Instructor: Vrenia Ivonoffski

8 Hours HST included Fee: \$77.07

ACT II STUDIO: Monologue and Scene Study

❖ **Monologues: The Basics** **CSAC 106**

Learn the building blocks for a solid emotionally connected monologue. Class limit: 10 students.

Note: Instructor: Les Porter

12 Hours HST included Fee: \$179.47

❖ **Scene Exploration I** **CSAC 115**

Prerequisite(s): CSAC 106 or CSAC 114

Learn how to analyze and activate a short text and make strong choices using objective/obstacle/action. Develop and strengthen your creative impulses through scene work and improvisation. Class work will be presented at a matinee or in class. Class limit: 12 students.

Note: Instructor: Aaron Willis

18 Hours HST included Fee: \$289.27

❖ **Scenes From Canadian and Other Plays** **CSAC 215**

Prerequisite(s): CSAC 115

An intermediate level course in scene study. Develop a process that works for you through in-depth studies with a partner. Rehearsal with your scene partner between classes is expected. Class work will be presented at a matinee. Class limit: 12 students.

Note: Instructor: Les Porter

18 Hours HST included Fee: \$289.27

❖ **Comedy Monologues** **CSAC 306**

Prerequisite(s): CSAC 106

Discover the challenges of comedy - structure, timing, and characterization. Each participant will prepare, for performance at one of the Matinees, one monologue selected from a range of genres from the comedy of manners of Oscar Wilde to the corrosive satire of George F. Walker. Class limit: 12 students.

Note: Instructor: Les Porter

12 Hours HST included Fee: \$201.65

❖ **Readers' Theatre Techniques** **CSAC 313**

Develop special skills needed for staged readings: act while holding the script, create a defined character, make strong choices, and work off other actors.

Note: Instructor: Vrenia Ivonoffski. This course is a prerequisite for those wishing to act in Readers' Theatre performances.

4 Hours HST included Fee: \$77.07

❖ **Advanced Scene Study: Beckett** **CSAC 516**

Prerequisite(s): CSAC 215

Through lectures, discussion, and scene study, we'll explore Samuel Beckett's unique style of "humour through adversity", and experience how he captures the spirit of everyday life. Texts include 'Waiting for Godot' (read at least once before first class), 'Endgame', 'Come and Go', 'Catastrophe', and 'Rough for Theatre I'. Scenes will be performed with costumes and props at a matinee. Class limit: 10 students.

Note: Instructor: Geoffrey Baines

21 Hours HST included Fee: \$330.45

NEW**❖ Advanced Scene Study: Pinter CSAC 618***Prerequisite(s): CSAC 215*

We will examine Harold Pinter's immaculate and seemingly rigid stagecraft, exploring the performance freedom that exists within his prescription. We will also grapple with the infamous "Pinter Pause". Scenes may be taken from 'The Birthday Party', 'The Dumbwaiter', 'The Collection', 'The Caretaker', 'The Homecoming', 'Betrayal', 'No Man's Land', and 'One for the Road'. Scenes will be performed at a matinee. Class limit: 12 students.

Note: Instructor: Mitchell Cushman. CSAC 657 is an ideal accompaniment to enrich your experience of this course.

21 Hours HST included Fee: \$328.84

NEW**❖ Unleashing Pinter CSAC 619***Prerequisite(s): CSAC 215*

We will approach Pinter's scenes from different viewpoints, exploring the space between ourselves and our partners, giving precedence to our physical and emotional impulses over those of the character in order to play as honestly as possible, even allowing ourselves to become detached from Pinter's text and techniques. There will be a class presentation after the last session. Class limit: 12 students.

Note: Instructor: Clara McBride. CSAC 618 and CSAC 657 are ideal accompaniments to enrich your experience of this course.

21 Hours HST included Fee: \$328.84

ACT II STUDIO: On-Camera Acting**❖ Acting on Camera A to Z CSAC 169**

A basic introduction to acting and auditioning on camera. Topics: Camera action basics. Getting the call. Handling auditions. Analysing sides (scripts). Cold readings. Connecting with another actor. Class limit: 14 students.

Note: Instructor: Graham Orwin

Supplies to be purchased by the student: An additional fee of \$10 will be collected in the first class to cover the costs of materials.

15 Hours HST included Fee: \$235.53

❖ Acting in Commercials I CSAC 261*Prerequisite(s): CSAC 169*

Everything you wanted to know about the world of commercials including agents, headshots, resumes, casting directors, handling auditions, and the categories and acting requirements of different types of commercials. You will get acting tips on reading commercial copy, becoming a character, transitions, and acting without words.

Note: Instructor: Graham Orwin

Supplies to be purchased by the student: An additional fee of \$10 will be collected in the first class to cover the costs of materials.

12 Hours HST included Fee: \$200.67

❖ Audition on Camera With Improv CSAC 269*Prerequisite(s): CSAC 169*

Skills and themes to be covered include auditioning and performing in MOS scripts (without dialogue) for commercials and films; concentration and listening; real thinking; using the language of advertising (descriptive words as a source of useful acting ideas); emotional states and stereotypical relationships; physical actions and behaviour; transitions; and internal/external story telling. Class limit: 12 students.

Note: Instructor: Graham Orwin

**There will be no class on October 14.*

8 Hours HST included Fee: \$144.64

ACT II STUDIO: Period Study**NEW****❖ Restoration Comedy CSAC 126***Prerequisite(s): CSAC 115*

This course is an introduction to Restoration Comedy. We will explore the acting techniques required to meet the stylistic demands of the plays of Wycherley, Dryden, Congreve, Etheridge, Vanbrugh and Behn. Prepare by reading several plays of the period. The skills you will acquire of precision, character definition, rhetoric, and gesture will benefit your acting in plays of later periods.

Note: Instructor: Vrenia Ivonoffski

12 Hours HST included Fee: \$200.67

NEW**❖ Restoration Comedy Scenes CSAC 317***Prerequisite(s): CSAC 126 CSAC 215*

This is the first of two courses leading to the performance of scenes from plays by the major playwrights of the Restoration period. We will begin in-depth study as a group and continue building essential Restoration period skills.

Note: Instructor: Vrenia Ivonoffski Those enrolling in this course must plan to take the follow-up course, CSAC 318.

18 Hours HST included Fee: \$191.33

NEW**❖ Restoration Comedy Performance CSAC 318***Prerequisite(s): CSAC 317*

Continuing our work, the scenes will be fused together into a unified production. Experience the stages of presenting a show from rehearsals, to move-in, technical and dress rehearsals, and opening night and closing.

Note: Instructor: Vrenia Ivonoffski. Additional intensive rehearsals will take place on January 12 and 14 and February 12. Production and performances will take place February 15-20.

24 Hours HST included Fee: \$200.55

ACT II STUDIO: Playwriting

❖ Playwriting Basics

CSAC 151

What makes a play tick? Why use the stage rather than a novel or film to tell a story? We will clarify the essential components that make up an effective stage play: plot, conflict, character, shape, and dramatic tension. In-class writing exercises will help illustrate some of these points, but you will not be required to write a play for this class. Required reading: Albee's 'The Zoo Story' and Molnar's 'The Play's the Thing'.

Note: Instructor: Mitchell Cushman

6 Hours HST included Fee: \$93.96

❖ Playwriting I

CSAC 156

Prerequisite(s): CSAC 151

Learn how to write a short play. Starting from your story ideas, we'll look at dramatic action and the playwright's craft. You will learn how to write believable dialogue, structure your scenes for maximum impact, and create compelling characters. Class limit: 12 students.

Note: Instructor: Kate Lushington

18 Hours HST included Fee: \$279.78

❖ Playwriting Lab V: Generating Ideas

CSAC 356

"Where do I get the idea?" is the beginning playwright's most commonly asked question. With a view to writing a play, we'll dig for ideas in the themes and dreams of our imaginations and our attitudes, desires, fears, and experiences. We'll look at possible characters and settings and different methods of expression. Through this process you'll gain the confidence of knowing that the creative spark may come from the intermingling of many conscious and unconscious streams.

Note: Instructor: Julie Tepperman

3 Hours HST included Fee: \$60.17

❖ Playwriting Lab VI: Dialogue

CSAC 357

In theatre, most elements of story are conveyed through dialogue. It communicates character, suspense, plot, and meaning to the audience. Using group and individual writing exercises, and lecture, this class will help you write dialogue both natural (authentic-sounding) and non-naturalist (poetic) dialogue. You will be encouraged to experiment with ways of making every line simultaneously convey character and meaning while forwarding the action of your play.

Note: Instructor: Hannah Moscovitch

4 Hours HST included Fee: \$77.90

NEW

❖ Playwriting Lab VIII: Character

CSAC 451

An audience has three ways of learning about a character: by what they do, by what they say, and by what other people say about them. Learn how to make the best use of these tools to define a character with skillful economy.

Note: Instructor: Bettyjane Wylie

2 Hours HST included Fee: \$39.00

❖ Adapting Stories for the Stage

CSAC 456

Adapt a narrative piece for theatre by excavating the essentials of the plot, making dialogue playable and active, deepening conflict, building suspense and moving towards the climax. You will learn how and when to write a monologue and how to further develop characters or combine several characters into one. Please come to the first class with the short story you would like to adapt.

Note: Instructor: Julie Tepperman

10 Hours HST included Fee: \$165.99

NEW

❖ Research-Inspired Plays

CSAC 555

Sometimes the best theatre comes out of real life. Perhaps it's a play inspired by an historic event, a newspaper headline, or events in one's own life. Gathering research and details from real life can enrich your writing and help you through writing blocks. In this class, we will work on various ways in which research can inspire your playwriting work. Class limit: 12 students.

Note: Instructor: Beverley Cooper

6 Hours HST included Fee: \$97.71

NEW

❖ Reading Plays: Pinter

CSAC 657

The work of Harold Pinter has had an immeasurable impact on playwriting, screenwriting, HBO drama, and the way we think about menace in our lives. This discussion-based course examines this impact by looking at plays spanning Pinter's long career. We will work towards creating our own definition of the term "Pinteresque". The reading list includes 'The Birthday Party', 'The Dumbwaiter', 'The Collection', 'The Caretaker', 'The Homecoming', 'Betrayal' and 'One for the Road'.

Note: Instructor: Mitchell Cushman

12 Hours HST included Fee: \$164.95

ACT II STUDIO: Shakespeare Study

❖ Shakespeare: Yes You Can!

CSAC 105

Hate Shakespeare? Love Shakespeare? Get to know the Bard better! Embark on a journey through the textual codes that guide the actor. A fascinating course for actors and non-actors alike, guaranteed to change forever how you approach the printed word. Texts provided.

Note: Instructor: Vrenia Ivonoffski

14 Hours HST included Fee: \$237.55

❖ Shakespeare Monologue

CSAC 206

Prerequisite(s): CSAC 105

Apply what you learned in CSAC 105 to a short monologue which you'll explore in great depth. Memorization is not required. Class limit: 8 students.

Note: Instructor: Vrenia Ivonoffski

10 Hours HST included Fee: \$175.44

ACT II STUDIO: Storytelling

❖ The Art of Story Telling

CSAC 310

Storytelling is the very foundation of theatre. A powerful genre on its own, it can open up new approaches for play creation and performance. In this course, you will learn the basic techniques of storytelling. Bring some ideas for your story, e.g., myth, fairytale, or short story.

Note: Instructor: Goldie Spencer

15 Hours HST included Fee: \$236.90

NEW

❖ Bringing History to Life

CSAC 410

Prerequisite(s): CSAC 310

You will learn how to take historical facts and weave them into an engaging story that will hold your audience spellbound. We will explore perspectives from which to tell your story and discover the most appropriate genre to use.

Note: Instructor: Goldie Spencer

15 Hours HST included Fee: \$243.74

ACT II STUDIO: Voice and Movement

For all Voice and Movement courses, please wear comfortable, non-binding clothing you can move in and shoes that you can slip on and off, if possible. Bring a mat or large towel, a notebook, and water. Also, have a short (1 minute max) memorized piece of text to work with.

❖ Voice Work Basics

CSAC 111

Discover how your voice works and develop a clearer and more open, expressive voice. Class limit: 14 students.

Note: Instructor: Kate Lushington

8 Hours HST included Fee: \$121.41

NEW

❖ Voice Coaching

CSAC 211

Prerequisite(s): CSAC 111

Learn to apply voice training skills to specific texts and vocal challenges you may be working with. Bring a monologue, scene, or song to class. Class limit: 8 students.

Note: Instructor: Kate Lushington

4 Hours HST included Fee: \$70.00

❖ Movement Lab I: Grounding and Taking Space

CSAC 322

Develop physical presence on and off stage. We'll do movement which will help you feel more connected to your intention and character and help you develop more ease and stability in movement and performance. Class limit: 12 students.

Note: Instructor: Liz Rappeport

3 Hours HST included Fee: \$38.01

❖ Movement Lab II: Fluidity and Expressiveness

CSAC 323

Move with more comfort and expressiveness. Using stretch, balance, breath, and patterns of movement, we will explore physical connection and fluid movement, individually and as a group. By expanding your range of motion and freedom to respond, you will develop more spontaneity and confidence. From this more open state we will explore emotional and physical gesture. Class limit: 12 students.

Note: Instructor: Liz Rappeport

3 Hours HST included Fee: \$38.01

NEW

❖ Movement Lab III: Warm Ups and Text

CSAC 324

In the first half of this class you will learn a complete warm up routine, in both a long and short version, which you can continue to use after the class and before performances. Thoroughly prepared, in the second half, we will play with text, sound, and movement to explore language in a way that expands the expressive potential of text. Please bring a short text (one-minute) which you enjoy and have memorized to work with. Class limit: 12 students.

Note: Instructor: Liz Rappeport

3 Hours HST included Fee: \$37.83

NEW

❖ Movement Lab IV: Character and the Body

CSAC 326

Every emotion has a physical component. Every character has a physical shape. We will explore the creation of character through patterns of tension, holding, release, and movement. From this physical base, we will develop a voice and a simple story. Class limit: 12 students.

Note: Instructor: Liz Rappeport

3 Hours HST included Fee: \$37.83

NEW

❖ Alexander Technique I

CSAC 421

Use affects function and our use of our selves is often ruled by our habitual patterns, which interfere with ease of movement and voice, both on stage and off. Learn an effective approach to interrupting the cycle of habitual response, and freeing into a more balanced and supported relationship with gravity. The Alexander Technique principles of "thinking in activity" can be applied to acting skills and everyday life. Class limit: 12 students.

Note: Instructor: Kate Lushington

12 Hours HST included Fee: \$200.67

❖ Transformative Movement Intensive

CSAC 424

This workshop will transform you by changing the way you think about your body, by uniting body and mind in movement and by opening you to the kind of presence that actors need to commit to an intention, take space, find ease, and feel energized. We'll work with deep relaxation, alignment, self-discovery through movement, authentic movement, dance, sound, and Neutral Mask. The class will be held in an airy studio location at Ryerson.

Note: Instructors: Liz Rappeport and Vrenia Ivonoffski

13 Hours HST included Fee: \$198.47

Caring Clown

Through several courses, students are trained in clowning techniques and achieve an understanding of aging and the dementia process.

NEW

The Joy of Failure

CSCC 205

Study the art of showing up, being open, sensitive, vulnerable, human, ridiculous, finding your special quality that connects you to others, and being present and engaging to an audience, connecting and opening a channel between you and them. This work helps us get unstuck. It teaches us to listen; to rediscover play; and not to push too much or shy away, but to let go and be attuned to the moment.

Supplementary workshop for the Caring Clown program.

12 Hours

Fee: \$TBA

NEW

Awakening New Possibilities

CSCC 206

Explore how movement can develop and deepen the connection to your Caring Clown and how your clown relates to others. In this workshop, we will focus on listening to physical impulse, relating to others through movement that is inclusive, and exploring qualities of movement that will awaken new possibilities of physical and vocal expression.

Supplementary workshop for the Caring Clown program.

4 Hours

Fee: \$0.00

NEW

❖ Caring Clown I

CSCC 900

Antirequisite(s): CSAC 109

Caring Clown requires a foundation of knowledge and skills in basic clowning. Games and improvisational exercises are designed to develop spontaneity, physicality, and a playful approach in order to foster an exploration of each student's personal clown. An introduction to how fundamental clowning techniques can be applied to health care settings.

Note: This course is part of the Caring Clown program.

12 Hours

HST included

Fee: \$200.12

❖ Caring Clown II

CSCC 910

Prerequisite(s): CSAC 109 or CSCC 900

This course focuses on the understanding and practice of clowning techniques used in therapeutic facilities, with emphasis on long term care homes. Included are the history, ethics, and principles of Caring Clown and therapeutic humour; information related to aging, dementia, and other chronic illnesses and the care facility environment; and creating a unique character. Includes development of a character clown and role playing practice for individual and small group clowning. Limited enrollment, by interview. (Formerly CSAC 910)

21 Hours

HST included

Fee: \$267.11

❖ Caring Clown Practicum

CSCC 911

Prerequisite(s): CSCC 910

This practicum continues the work begun in CSCC 910, by giving students opportunities to gain practical experience as caring clowns in various long term care homes. Students will clown with individual and small groups of residents in designated units. Students will be expected to spend time in rehearsal outside of regular class hours and submit a written journal outlining their experiences and learning. Upon successful completion, students will have opportunities to volunteer in long term care homes. (Formerly CSAC 911)

Note: This course is part of the Caring Clown program.

17 Hours

HST included

Fee: \$87.62

Media Arts

Learn the latest in media arts in a supportive environment. Study films and cinema history, attend writing workshops, make your own films, and direct your own movie, with like-minded, creative peers.

❖ Film Club

CSMA 111

Join us as we watch a film and discuss the approaches and themes with Kevin Courrier, film critic and instructor at The G. Raymond Chang School of Continuing Education.

Note: This course is not restricted to older adults.

Please consult the latest course flyer(s) for details on film screenings and topics.

12 Hours

HST included

Fee: \$59.13

Music Arts

These courses enable students to gain confidence and develop their hidden talents in music.

NEW

Singing Level I

CSMU 100

Here is your opportunity to come out and participate in a 50+ choir without the pressure of an audition. Each class involves singing and ear training in a group setting. There will also be online supports for practice at home during each week. Each session ends with a public choral performance. Singers will gain confidence and develop their hidden musical talents.

20 Hours

HST included

Fee: \$157.07

NEW

Singing Level II

CSMU 101

Prerequisite(s): CSMU 100

This course is designed for individuals who have completed CSMU 100 and have a good understanding of basic rudiments. At this level, students will be designated with registered voices (e.g., soprano, tenor, baritone, and bass). Students will get more training in vocal control and basic sight reading will be introduced. There will also be an increased emphasis on harmony.

20 Hours

HST included

Fee: \$157.07

PROJECT MANAGEMENT

These courses in project management provide you with an opportunity to acquire a level of knowledge and expertise that will permit you to contribute effectively to the management and the control of costs within any project environment.

Project Management

Related certificate(s): Architectural Preservation and Conservation, Architecture, Architecture, Advanced, Community Engagement, Leadership, and Development, Computer Programming Applications, Design Management, Energy Management and Innovation, Facility Management, Health Studies, Nursing Leadership and Management, Advanced, Project Management, Project Management for Technical Professionals, Sustainability Management and Enterprise Process Excellence

♣ Strategic Project Mgt (Tech Prof)

CKPM 123

Prerequisite(s): CKPM 202

This highly practical, interactive course will equip technical professionals with team-building expertise and communications in service to delivery on strategic projects. This course also equips technical professionals to perform project manager roles with within an engineering sector organization including managing scope, quality, time, cost, risk, and communications. Through situational analysis and scenario analysis, participants will gain key non-technical competencies needed to build and lead effective project teams. (39 PDU)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

39 Hours

Fee: \$756.40

♣ Fundamentals of Project Management

CKPM 202

This course will familiarize the student with the concepts and basic functions of the project management body of knowledge, including scope, quality, time, cost, risk, procurement, human resource, and communication management. The integration of these functions into a project management system, and the role of the project manager and project support staff, will be examined. This course will provide students with a basic knowledge of project management as preparation for other courses in the program. (39 PDU)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

39 Hours

Fee: \$756.40

♣ Planning and Scheduling

CKPM 203

Prerequisite(s): CKPM 202 or CITM 750

The course deals with the application of the Critical Path Method (CPM)/Pert Networks for time control of a project. Topics covered include: the total project as a system, criteria for assessing the suitability of network presentations, project analysis, and decision-making, and the use of computers for network analysis and report production. The practical aspects of installing and operating a planning and scheduling system are emphasized throughout the course. (39 PDU)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

Students must have access to Microsoft Project for Windows to be successful in this course. The Apple (Mac) operating system is not supported by this course.

39 Hours

Fee: \$756.40

♣ Project Management Systems

CKPM 207

Prerequisite(s): CKPM 202 or CITM 750

This course will provide the candidate with the concepts, knowledge, and skills to enable creation of a basic project development and management system using MSProject as the primary tool. Candidates will identify required components; design a basic project development and management system; set up, plan, and create project plans; schedule the activities; cost the project; communicate the information to others; manage changes as they occur; and evaluate the results. A study of this area requires the candidates to understand the needs of clients, the needs of parent organizations, the limitation of system applications, and an understanding of the hardware and the software interface windows, menus, templates, and other features. (39 PDU)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

Students must have access to Microsoft Project for Windows to be successful in this course. The Apple (Mac) operating system is not supported by this course.

39 Hours

Fee: \$756.40

♣ Project Risk and Quality Management

CKPM 209

Prerequisite(s): CKPM 202 or CITM 750

The Project Management Institute (PMI) recognizes Risk and Quality Management as two of the key knowledge areas of project management. This course covers the fundamental aspects, analytical tools, and methods of both areas. In particular, the course covers the basic processes of risk planning, identification, qualitative analysis, quantification, risk response development, and risk control. The course also deals with concepts of quality and their integration into project planning, execution, and control. It addresses the customer and the organizational perspectives on quality, the cost of quality and the use of statistical tools to manage quality improvements in projects. (39 PDU)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

39 Hours

Fee: \$756.40

Leadership in Project Management**CKPM 211***Prerequisite(s): CKPM 202 or CITM 750*

A successful project manager not only understands the technical project management skills (scope, schedule, cost, quality, and risk), but also has solid leadership and other soft skills. This course is designed to introduce students to leadership concepts and skills as they apply to projects. In addition, the course will discuss other soft skills required by a project manager, including team building, managing conflict, communication, and other tools and techniques. (39 PDUs)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

39 Hours

Fee: \$756.40

Project Cost and Procurement Management**CKPM 212***Prerequisite(s): CKPM 202 or CITM 750*

Management of cost and contracts is one of the key functions of the project manager. This course will outline various key concepts of project cost management including: financial and management accounting fundamentals, cost management system fundamentals, basic budgeting and responsibility accounting, and cost management reports. In addition, the course will review the procurement cycle including RFPs, contracts, and legal requirements. (39 PDUs)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

39 Hours

Fee: \$756.40

Management of Projects in the AEC**CKPM 213***Prerequisite(s): CKPM 202*

Market assessment, bidding strategies and advanced procurement methods are examined in the context of organizational structures required for the various delivery methods. An in-depth examination of techniques of time and cost control required to support these techniques is carried out. This course places emphasis on the application of theory to practice through cases studies. (39 PDUs)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

39 Hours

Fee: \$756.40

Project Development and Control**CKPM 214***Prerequisite(s): CKPM 202*

This course examines the context of the business environment in which AEC projects are planned and developed and executed. It investigates the contractual relationships of key stakeholders in order to identify mutual influences and their impact on key project constraints. It reviews advanced techniques of time and cost trade-off, resource allocation and implications of project cash flow analysis and assessment. (39 PDUs)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

39 Hours

Fee: \$756.40

Emerging Trends in Project Management**CKPM 215***Prerequisite(s): (CKPM 202 or CITM 750) and CKPM 203, CKPM 209, CKPM 211, CKPM 212*

Building on the core courses, this course will explore four to six key topics in project management. The topics in the course will change depending on current issues and availability of subject matter experts. The course will allow students to understand the background to the issue, discuss the impact on project management, and present their ideas. (39 PDUs)

Note: For further information about Professional Development Units (PDUs), see Project Management Institute.

39 Hours

Fee: \$756.40

Project Management Internship**CKPM 216***Prerequisite(s): Prerequisite:(CKPM 202 or CITM 750) and CKPM 203, CKPM 209, CKPM 211, CKPM 212*

Students choose from two options: a field placement or a research/development project. All options emphasize student's development as an emerging professional. For field placement, students must arrange for an opportunity to volunteer as a project manager and submit a report. The research/development project offers students the opportunity to explore an area of specialization in more detail. (39 PDUs)

Note: This course may be taken as individualized study/directed reading; please contact the Academic Coordinator, John Estrella, at jestrella@ryerson.ca prior to enrolling.

For further information about Professional Development Units (PDUs), see Project Management Institute.

39 Hours

Fee: \$756.40

NEW**Agile Project Management****CKPM 217**

This course prepares members of self-managing teams to build products while responding effectively and nimbly to ever-changing project environments and business conditions. Topics include agile theories, methods, applications, and case studies behind agile project life cycles even when change is introduced late; agile tools and techniques for minimizing risk throughout a time-limited project; and evidence-based best practices of agile product development.

39 Hours

HST included

Fee: \$756.40

Enterprise Project Mgt (Tech Prof)**CKPM 456***Prerequisite(s): CKPM 202*

This course examines the critical enterprise role of the project director or executive team, analyzes why significant progress has not been made, and explores how this holistic approach can be used to manage projects in today's complex organizations. Through situational analysis and scenario analysis, there will also be a focus on extreme project management - a project in which the stakes are high, the luxury time is nonexistent, quality is paramount, and resources are few. (39 PDUs)

39 Hours

Fee: \$756.40

CAPM and PMP Exam Prep Workshop

CKPM 980

The PMP Examination Preparation Workshop is designed to prepare students for the PMP exam offered by PMI through providing them an overview the key project management concepts, sample exam questions, and hints and tips. Students must have good knowledge of project management tools, techniques, processes, and procedures. The workshop will provide the contact hours required for the PMP exam.

Not offered in fall/winter/spring 2015–2016.

*Includes a one-hour lunch break from 12:00-1:00 p.m.

48 Hours HST included Fee: \$1249.32

CAPM and PMP Exam Prep

CKPM 990

Prerequisite(s): CKPM 202

This course features specialized support in preparation for the Project Management Professional (PMP) exam.

Note: Students must have taken CKPM 202 based on the revision of the PMBOK guide used in the PMP exam they intend to write.

Note: This course is offered in the Spring/Summer term as part of 'Project Management Bootcamp' (CKPM 999).

Material Fee: A material fee of \$100 is included in the total fee indicated above. For further information, see Material Fees.

24 Hours Fee: \$691.16

Project Management Bootcamp

CKPM 999

Project Management Bootcamp allows participants to complete six of the courses required to earn the Certificate in Project Management through an intensive program. Lectures and coursework are scheduled four days a week and the fifth day is allotted to a self-study/group work with access to instructor support. Students will have PMP exam prep simulations with sample question and answer review led by the instructor.

234 Hours Fee: \$5229.56

PSYCHOLOGY

Psychology courses address questions about the nature of human behaviour: how and why we act, think, feel, and reason, and how these questions are investigated through research.

Psychology

Related certificate(s): Community Engagement, Leadership, and Development, Criminal Justice and Criminology, Demographic Analysis, Ethics, Gerontology, Health Studies, Mental Health and Addictions, Psychology, Social Sciences and Humanities Foundations

Clinical Supervision - Best Practices

COPS 150

Prerequisite(s): Department consent

This course is for psychologists, psychiatrists, MSW social workers, and mental health professionals who are engaged in clinical supervision; or PhD students in a Clinical Psychology program who have completed the first year of their program, preferably with supervisory experience. Topics include models of supervision; core competencies of supervisors; techniques of supervision; crisis intervention; teaching and learning in supervision; gatekeeping functions; supervision across theoretical models; corrective feedback; mentoring of supervisees; and ethical and legal considerations.

39 Hours HST included Fee: \$666.80

Independent Study

COPS 250

Prerequisite(s): (CPSY 102, CPSY 105, CPSY 11A/B, or CPSY 11), CPSY 601, and Department Consent

In this course students produce a comprehensive paper in a selected area. Each student is assigned a faculty member from the Department of Psychology to guide the development of the project.

Note: This course is the final course of the certificate. To enroll, candidates must have successfully completed the above prerequisites, plus an additional three electives from either the Certificate in Mental Health and Addictions or the Certificate in Psychology. Students planning to enroll in this course should contact the continuing education academic coordinator, Department of Psychology (416.979.5000, ext. 6195), in the first week of September or January, in order to be assigned a departmental faculty advisor.

39 Hours Fee: \$589.55

Research Methodology

COPS 601

In this course, students will be introduced to basic statistical concepts and procedures, learn to analyze data with the aid of a calculator, and gain experience in using computer software to analyze larger data sets. There will be an emphasis on research design as related to the appropriateness of various statistical procedures.

Note: Formerly CPSY 601.

39 Hours Fee: \$586.29

<p>★ Introduction to Psychology I CPSY 102 <i>Antirequisite(s): PSY 11, CPSY 105</i></p> <p>This course introduces students to psychology, the scientific study of behaviour and cognition, by examining the basic principles of psychology and their applications to everyday experience. The course surveys some core areas of psychology including research methods, biological bases of behaviour, sensation and perception, memory, and cognition.</p> <p>39 Hours Fee: \$595.84</p>	<p>★ Psychology of Addictions CPSY 215 <i>Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102</i></p> <p>This course introduces students to basic principles and issues in the area of addiction, the factors that influence its development, and the methods used to treat it. The similarities and differences between addictive disorders and other forms of psychopathology are discussed. The course studies both experimental and clinical approaches to addiction. The course covers the various instruments and methods used by addiction researchers and clinicians and discusses their strengths and weaknesses.</p> <p>39 Hours Fee: \$576.75</p>
<p>★ Perspectives in Psychology CPSY 105 <i>Antirequisite(s): CPSY 102</i></p> <p>This course introduces students to psychology by exploring several viewpoints within the discipline, such as the biological, behaviourist/learning, cognitive, and psychodynamic perspectives. The emphasis is on examining the ways in which these perspectives have influenced our understanding of how people act, think, and feel, and the contributions that each has made to psychology as a discipline. PSY 105 is not available for credit to students who choose PSY 102. (LL)</p> <p><i>Note: Students may not enroll in CPSY 105 if they are also taking or have already passed PSY 11B or PSY 11.</i></p> <p>39 Hours Fee: \$595.84</p>	<p>★ Psychology and Law CPSY 300 <i>Prerequisite(s): CPSY 105 or CPSY 102</i></p> <p>Psychology's empirical perspective sometimes complements the legal system's rule-based nature, and sometimes the two disciplines are at odds. This course focuses on the application of psychological theory, methods, and data to various procedures and issues in the legal system, including eyewitness evidence, the detection of deception, jury selection and jury decision-making, and sentencing.</p> <p>39 Hours Fee: \$576.75</p>
<p>★ Social Psychology CPSY 124 <i>Prerequisite(s): CPSY 102 or CPSY 105 or PSY 11;</i> <i>Antirequisite(s): CPSY 504, PSY 24</i></p> <p>This course examines the influence of social factors on the behaviour of the individual. Topics include affiliation, aggression, prejudice, social cognition, the development and measurement of attitudes, persuasion, socialization, conformity and group behaviour. These topics are explored from a North American and cross-cultural perspective.</p> <p>39 Hours Fee: \$585.23</p>	<p>★ Child Development CPSY 302 <i>Prerequisite(s): PSY 11 or CPSY 102 or CPSY 105</i></p> <p>This course introduces students to the methods, theories, findings and practical applications of research in the area of child development. The focus is on describing the significant changes in physical, cognitive, social and emotional development and on explaining why these changes occur. This course also discusses the immediate contextual influences of families, peer groups, and schools as well as on the broader contextual influences of subculture, culture, and historical era.</p> <p>39 Hours Fee: \$585.23</p>
<p>★ Introduction to Psychology II CPSY 202 <i>Prerequisite(s): CPSY 102 or CPSY 105</i></p> <p>This course continues the introduction to psychology from PSY 102, with a focus on applying psychological principles in different contexts. The course surveys some core areas of psychology, including personality, development over the life span, behaviour in a social context, and psychological disorders.</p> <p>39 Hours Fee: \$595.84</p>	<p>★ Psychology of Gender CPSY 304 <i>Prerequisite(s): PSY 11 or CPSY 102 or CPSY 105;</i> <i>Antirequisite(s): PSY 535</i></p> <p>This course involves an examination and critique of psychological theory and research related to gender. Broad topics to be addressed include: gender development, stereotyping and gender roles, sexism, and the impact of gender on intimate relationships, achievement, and psychological and physical health. A key goal of the course is to foster an appreciation for how gender may be relevant to students' working and personal lives. PSY 304 is not available for credit to students who choose PSY 535. (LL)</p> <p>39 Hours Fee: \$585.23</p>
<p>★ Psychopharmacology CPSY 214 <i>Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;</i> <i>Antirequisite(s): CPSY 607</i></p> <p>This course examines a variety of issues surrounding the use, mechanisms, and actions of psychoactive or mind-altering drugs. The course focuses on two main contextual topic areas: drug addiction, and drug treatment of mental illness. Each of these areas is explored in depth, including the role of genes, biochemistry, cognition, and personality factors.</p> <p>39 Hours Fee: \$570.38</p>	<p>★ Psychology of Thinking CPSY 308 <i>Antirequisite(s): PSY 108</i></p> <p>This course discusses human information-processing abilities and limitations in critical-thinking contexts such as solving problems, making decisions, testing hypotheses, and understanding probabilities. Individual and social factors that affect the efficiency of these processes will be examined, and the consequences of poor thinking processes for the individual and for society will be considered. PSY 308 is not available for credit to students who choose PSY 108. (LL)</p> <p>39 Hours Fee: \$585.23</p>

- ★ **Biological Psychology** **CPSY 324**
Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102
 This course is concerned with integrating the understanding of human behaviour and the understanding of physiological mechanisms relating to behaviour, particularly those of the nervous system and brain. Students are introduced to neurons and neurophysiology, neuroanatomy, neurochemistry, and the methods used in physiological research. These core areas allow students to understand how nervous system mechanisms contribute to sensorimotor function, ingestion, sexual behaviour, memory, thought, language and consciousness, addictions and psychological disorders.
 39 Hours Fee: \$576.75
- ★ **Psychological Disorders** **CPSY 325**
Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): CPSY 606
 This course examines conceptions of abnormality, how psychological disorders are classified, and how they are treated. The DSM classification system and alternative systems will be critically considered, and the causes of psychological disorders will be discussed from a variety of perspectives (e.g., behaviourist, humanist, sociocultural). Specific disorders to be discussed include mood disorders, schizophrenia, substance-related disorders, somatoform and dissociative disorders, personality disorders, eating disorders, and anxiety disorders. In addition, the course includes consideration of cross-cultural factors, and legal and ethical issues. (Formerly the first half of PSY 040.)
 39 Hours Fee: \$576.75
- ★ **Clinical Psychology** **CPSY 335**
Prerequisite(s): CPSY 325
 Clinical psychology concerns the assessment, diagnosis, and treatment of individuals who experience social, emotional, behavioural, and mental health problems. Topics covered include the history of clinical psychology, professional and ethical issues, assessment and diagnosis of mental health problems, modalities of treatment (e.g., individual, group, family), therapeutic orientations and their methods and techniques, and current issues. This course combines a study of theory, research, and practice. (Formerly the second half of PSY 040.)
 39 Hours Fee: \$576.75
- ★ **Adult Development** **CPSY 402**
Prerequisite(s): CPSY 105 or PSY 11 or CPSY 102;
Antirequisite(s): PSY 22B
 All of us hold beliefs about what it means to be an adult and what it means to grow old. In this course, students examine their beliefs in light of scientific evidence on adult development and aging. Theories and empirical findings related to changes in physical, cognitive, personality, and social processes are examined. Contextual influences of family, culture, and historical era are emphasized. A recurrent theme is the tremendous diversity and individual variability in aging.
 39 Hours Fee: \$576.75
- ★ **Research Methods and Statistics I** **CPSY 411**
Prerequisite(s): CPSY 102 and CPSY 202
 This course introduces students to basic research designs, statistical concepts, and data-analysis procedures. Topics include describing and summarizing data, probability basics and hypothesis testing, simple correlation and regression, t-tests, and Chi-square analyses. A statistical software package (e.g., SPSS) is used throughout the course.
 39 Hours Fee: \$576.75
- ★ **Human Brain Circuitry** **CPSY 412**
Prerequisite(s): CPSY 324
 This course will explore the anatomical and functional organization of the human brain and spinal cord, including how the neuronal system is designed to operate the motor, sensory and cognitive systems; neural networks of the cortical and subcortical pathways; brain connectivity; and the chemo- and cyto- architecture of the brain. Lectures will include learning to identify gross brain morphology on photographic and magnetic resonance image based atlases.
 39 Hours Fee: \$641.46
- ★ **Social Psychology** **CPSY 504**
Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): CPSY 124, PSY 24
 Social Psychology is an extremely diverse field that generally deals with people in social situations. Core topics include social behaviour such as aggression, obedience, conformity, intimate relationships, and how groups function. They also include attitudes, social cognition, social perception, prejudice and feelings of guilt, all of which are assumed to affect social behaviour. Basic methodological issues will be discussed as they pertain to the above topics. PSY 504 is not available for credit to students who choose PSY 124. (UL)
 39 Hours Fee: \$570.38
- ★ **Personality Theory** **CPSY 505**
Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102
 This course discusses the pattern of psychological characteristics that differentiate each of us from others and lead us to act consistently across some situations. Major perspectives on the understanding of these patterns are discussed, including the theorists aligned with each approach. (Formerly the first half of PSY 036.) (UL)
 39 Hours Fee: \$576.75
- ★ **Environmental Psychology** **CPSY 518**
Prerequisite(s): CPSY 102 or CPSY 105;
Antirequisite(s): CPSY 217
 Environmental psychology examines the interaction between people and their physical, natural, and human environments both large scale such as cities, and small scale such as residences. The course studies how we perceive and think about our environments, how our thoughts, emotions, and actions are influenced by our environments, and how we in turn affect the environments we inhabit and use.
 39 Hours Fee: \$576.75
- ★ **Developmental Psychopathology** **CPSY 602**
Prerequisite(s): CPSY 302 and (PSY 11 or CPSY 102 or CPSY 105);
Antirequisite(s): PSY 32B, PSY 32
 This course examines psychological disorders in children and adolescents, taking into account the developmental context in which such disorders occur. Topics include classification and assessment, anxiety disorders, depression, conduct disorders, attention deficit disorder, autism, schizophrenia, and eating disorders.
 39 Hours Fee: \$576.75

★ **Psychology of Health and Health Care** **CPSY 605**

Prerequisite(s): PSY 11 or CPSY 102 or CPSY 105

This course will offer insight into the psychological influences on health, with an emphasis on the application of psychological principles to health care delivery and disease prevention. Among the topics discussed are general health promotion, patient-practitioner interaction, stress, pain, and psychological issues in chronic and life-threatening illness.

39 Hours

Fee: \$576.75

★ **Abnormal Psychology** **CPSY 606**

Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): CPSY 325

This course studies clinical syndromes ranging from the mild patterns of personality pathology to the more severe disorders. In addition, the techniques involved in the diagnosis of disorders and the types of therapy available will be examined. PSY 606 is not available for credit to students who choose PSY 325. (UL)

39 Hours

Fee: \$570.38

★ **Drugs and Human Behaviour** **CPSY 607**

Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): CPSY 214

This course introduces students to the social, psychological and biological factors involved in the use and effects of psychoactive drugs and drug-taking behaviour. The course examines two aspects of drug use: addiction and the drug treatment of mental disorders. It addresses current issues such as the use of designer and performance-enhancing drugs. Topics range from historical, social, and cultural aspects of psychoactive drug use, to neurobiology and pharmacology underlying drugs and drug use. PSY 607 is not available for credit to students who choose PSY 214. (UL)

39 Hours

Fee: \$576.75

★ **Psychology of Sport** **CPSY 614**

Prerequisite(s): CPSY 105 or PSY 11 or CPSY 102

This course examines sport by applying psychological theory and research to the many different domains of sport. Topics include personality and the athlete; attention, anxiety, and arousal; motivation, leadership, exercise adherence, and development of expert performance. (UL)

39 Hours

Fee: \$576.75

★ **Psychology of Immigration** **CPSY 620**

Prerequisite(s): CPSY 105 or CPSY 102

In this course we will examine the issue of immigration from the perspective of experiences of immigrants and receiving societies. Broad topics to be addressed include: (i) immigration trends and societal effects, (ii) acculturation, ethnic identity, and cultural conflict, (iii) causes, forms, and experiences of prejudice and discrimination against immigrants, and (iv) strategies for promoting acceptance of diversity (e.g., multiculturalism). Throughout, the Canadian context of immigration will be emphasized. (UL)

39 Hours

Fee: \$576.75

★ **Psychology of Human Sexuality** **CPSY 621**

Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102

This course examines contemporary knowledge and attitudes towards human sexuality. Multiple perspectives will be presented, including psychosocial, cross-cultural and psychobiological. Sexuality across the life span will be examined, including issues pertaining to: biological sexual differentiation, intimacy and communication, gender role development, varieties of sexual relationships and behaviour, contraception, procreative technologies, and sexually transmitted diseases and HIV. (UL)

39 Hours

Fee: \$576.75

☆ **The Psychology of Criminal Behaviour** **CPSY 622**

Prerequisite(s): CPSY 300

This course covers a range of topics regarding the onset and maintenance of criminal behaviour. A variety of perspectives are examined, including biological, learning, and psychodynamic theories, and many areas within psychology are discussed, including social psychology, cognition, lifespan development, individual differences, and the identification and treatment of psychological disorders. Specific topics may include risk factors, typologies of offenders, special populations, risk-assessment instruments, treatment and rehabilitation of offenders, and interventions to reduce criminal behaviour.

39 Hours

Fee: \$576.75

NEW

☆ **Sleep** **CPSY 682**

Prerequisite(s): CPSY 102 or CPSY 105

This course introduces students to biobehavioural perspectives on sleep. After learning about healthy sleep across the lifespan, and understanding sleep through animal models, students will be introduced to evidence-based theories and interventions for sleep problems. The focus of the course will be on building a foundation to understand sleep disorders, most notably insomnia.

39 Hours

Fee: \$576.75

★ **Personal Growth and Positive Psychology** **CPSY 706**

Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102

This course focuses on growth and well-being. The first part of the course will examine different models of what is meant by growth and well-being, including the Jungian psychoanalytic, humanistic psychology and existential psychology perspectives, as well as those of Native Peoples, Yoga/Hinduism, Buddhism and Zen Buddhism. The remainder of the course will survey positive psychology's empirical findings on factors that contribute to growth and well-being (e.g., optimism, hope, meaning-making, self-esteem). (UL)

39 Hours

Fee: \$570.38

★ **Models of Stress and Adaptation** **CPSY 707**

Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102
Antirequisite(s): CPSY 805

Every society produces stressors to which the members of that society must respond. In our society stress is commonplace, but the origins, effects and handling of stress are often poorly understood. Through the examination of psychological models of stress, this course seeks to make students aware of the stressors present in our society and of their own personal resources for adjustment and growth. PSY 707 is not available for credit to students who choose PSY 805. (UL)

39 Hours

Fee: \$576.75

★ Death, Dying and Bereavement**CPSY 802***Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102*

This course presents a comprehensive review and critical analysis of empirical findings on death, dying and bereavement. There will be a discussion of research-based techniques for dealing with the problems and stresses encountered in helping the dying or grieving person to adjust.

39 Hours

Fee: \$576.75

★ Adjustment, Stress and Coping**CPSY 805***Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): CPSY 707*

This course will offer insight into stress, its consequences, and what individuals can do to cope. There is a balance of theory and applied information, and although we will concentrate on psychological variables, physiological issues are also considered. Among the topics discussed: popular models of stress, sources of stress, the influence of cognitions and personality on one's appraisal process, and strategies for successful stress management.

39 Hours

Fee: \$576.75

★ Behaviour Modification**CPSY 806***Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102*

This course is designed to provide students with a sound knowledge of behaviour theory and a set of skills essential to the behaviour modification process. Course requirements include completion of a project in which students design and implement a programme to modify some aspect of their own behaviour (e.g., smoking, over-eating, coping with interpersonal conflict).

39 Hours

Fee: \$576.75

★ Psychology of Prejudice**CPSY 807***Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102;
Antirequisite(s): PSY 940*

This course involves an examination and critique of psychological theory and research related to prejudice, discrimination, and intergroup relations. Broad topics to be addressed include: the causes of prejudice, contemporary manifestations of prejudice and discrimination, experiences of the targets of prejudice, and approaches to reducing prejudice and group inequality. PSY 807 is not available for credit to students who choose PSY 940. (UL)

39 Hours

Fee: \$576.75

★ Community Psychology**CPSY 808***Prerequisite(s): PSY 11 or CPSY 105 or CPSY 102*

In general, community psychology is concerned with the application of psychological principles to social issues such as child abuse, homelessness, school violence, racism, crime, and chemical dependency. This course will examine a number of topics related to community psychology including theories of community psychology, research methods, community mental health, prevention programs, the community practitioner as social change agent, and applications of community psychology to other settings and situations.

39 Hours

Fee: \$570.38

★ Cross Cultural Psychology**CPSY 941***Prerequisite(s): CPSY 105 or CPSY 102*

Cross-cultural psychology is the critical and comparative study of cultural effects on human psychology. This course examines the linkages between cultural norms and behaviour, and the ways in which particular human activities are influenced by different, sometimes dissimilar, social and cultural forces. Topics covered will include motivation, development, emotion, social perception and social interaction. Some applied aspects of cross-cultural psychology, such as prejudice and acculturative stress, will also be discussed.

39 Hours

Fee: \$579.93

PUBLIC RELATIONS

This program provides a curriculum that is relevant to the current and emerging practice of public relations in order to equip students with the skills necessary to perform.

Public Relations

Related certificate(s): Public Relations

★ Public Relations Principles **CDPR 100**

This course presents students with the basic concepts and principles of public relations. Topics explored include the history and trends, processes, and practices areas of public relations. Students will also learn the elements of communication planning and implementation, including research, communication plan development, writing, and evaluation. Public Relations Principles I is the foundation course for all other courses in the Public Relations certificate program. (Formerly CDPR 201) (Equivalent to BDC 917/RTA 917).

39 Hours

Fee: \$684.07

🕒 Business Presentations **CDPR 102**

Prerequisite(s): CDPR 100 or CDPR 201

Public relations (PR) practitioners must be adept at developing business presentations for themselves and their business leaders. This course will identify and review the principles for effective business presentations. PR practitioners will develop practical skills to build effective presentations to meet communications objectives for multiple stakeholders.

Note: Students with five years of professional PR experience may apply to the Academic Coordinator, Nick Douloff, at ndouloff@ryerson.ca for consideration to enroll in this course without the required prerequisites.

19.5 Hours

Fee: \$399.64

🕒 Advanced PR Writing **CDPR 103**

Prerequisite(s): CDPR 111 and (CDPR 100 or CDPR 201)

As public relations (PR) practitioners advance in their careers, there are more opportunities to prepare reports, plans, speeches, and proposals for senior leadership, executives, and clients. The advanced PR writing course will provide PR practitioners with examples and extensive practice to continue to hone their writing skills. Particular focus will be on clarity, plain language, organization of thoughts and ideas, and understanding audience information needs.

Note: Students with five years of professional PR experience may apply to the Academic Coordinator, Nick Douloff, at ndouloff@ryerson.ca for consideration to enroll in this course without the required prerequisites.

19.5 Hours

Fee: \$419.62

🕒 Planning Programming and Budgeting **CDPR 104**

Prerequisite(s): CDPR 100 or CDPR 201

This course will explore the management of public relations and communication programs within organizations. Topics include identifying and setting strategy, creating and executing effective public relations projects, and the foundations of budgeting.

39 Hours

Fee: \$720.47

🕒 Research and Program Evaluation **CDPR 105**

Prerequisite(s): CDPR 100 or CDPR 201

This course provides an opportunity for learners to apply techniques of research and evaluation to investigate public relations issues. Students will learn both qualitative and quantitative strategies for public relations practice. Working both individually and in small groups, student will conduct a systematic secondary research report and a primary research report; learn to create and apply online metrics platforms; and conduct a study of an organizational public relations campaign.

39 Hours

Fee: \$720.47

🕒 Media Relations **CDPR 106**

Prerequisite(s): CDPR 100 or CDPR 201

This course will provide students with strategies and tactics to develop and deliver effective media relations activities, including relationship building, media planning, media training, and interviews, along with supporting materials such as media releases, media kits, media conferences, and Q&As.

39 Hours

Fee: \$720.47

🕒 Public Relations Project **CDPR 107**

Prerequisite(s): Department consent

This course will provide learners with an opportunity to assess the theory and skills required by an actual public relations challenge. Students who work in public relations are expected to submit a program or project report including an assessment of their work based on best practices. Students who, because of employment or other sufficient reasons, are unable to submit a program or project report may receive the required credit by doing a major paper.

Note: Department consent for this course may be granted after completing seven (7) full credits within the Certificate in Public Relations or concurrently with the final credit(s). Contact the Academic Coordinator, Nick Douloff (ndouloff@ryerson.ca) for consent.

39 Hours

Fee: \$720.47

🕒 Social Media in Public Relations **CDPR 108**

Prerequisite(s): (CDPR 100 or CDPR 201)

This course will explore the impact of social media on the role of the public relations practitioner. It will identify and review in detail principles for effective engagement with stakeholders and customers, using core social media tools for listening, messaging, relationship building and participating in social networks and other online communities.

39 Hours

Fee: \$720.47

🕒 Reputation Management **CDPR 110**

Prerequisite(s): CDPR 100 or CDPR 201

A strong and lasting reputation is an organization's most important attribute. Establishing and enhancing this intangible asset is a complex and intensive process. This course will examine the role of the public relations practitioner in building, enhancing, and managing an organization's reputation.

19.5 Hours

Fee: \$399.00

✦ Writing for Public Relations

CDPR 111

Prerequisite(s): CDPR 100 or CDPR 201

Learners will study the strategy and the basic concepts of effective public relations writing, including the use of a variety of communications tools used in public relations programs. The emphasis will be on the preparation of materials such as media releases, newsletters, brochures, letters, memos, reports, proposals, backgrounders, and public service announcements within the context of program planning and audience targeting.

39 Hours

Fee: \$720.47

✦ Internal Communications Management

CDPR 113

Prerequisite(s): CDPR 100 or CDPR 201

This course will explore the theory and practice of the key PR function of internal communications management. A discussion of the management and planning of internal communications, the politics of organizations and needs of employees, together with practical applications of traditional and social media, will provide students with the tools to advise senior management and effectively deal with internal audiences.

39 Hours

Fee: \$720.47

✦ Corporate Social Responsibility

CDPR 115

Prerequisite(s): CDPR 100 or CDPR 201

This course will explore the foundations and philosophy of corporate social responsibility (CSR), its role as a governance function, reporting requirements, and emerging trends. Areas of exploration will include the roles and responsibilities of the public relations practitioner in developing a CSR program; in securing engagement, buy-in, and support for the program; and in developing strategies to address the needs of stakeholders, including clients, shareholders, employees, activists, the community, and the environment.

19.5 Hours

Fee: \$419.62

Social Media for Executives

CDPR 121

This workshop will support executives and entrepreneurs in leveraging social media platforms and tools to build and manage a strong personal brand, develop thought leadership, and generate visibility within their sector/industry. Sessions will focus on the business case for using social media to develop a strong online presence and concentrate on different channels while delivering tactical advice on generating profiles, crafting content, and finding connections to strategically build their brand.

You must bring your own Internet-enabled device (e.g., laptop, tablet).

12 Hours

HST included

Fee: \$494.99

Public Relations Intensive

CDPR 999

This unique fast-track program covers all five required public relations courses, plus three electives.

Note: Priority enrollment for certificate students begins on February 8, 2016. Regular enrollment begins on February 22, 2016. To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further program information, contact Program Coordinator Ana Abreu at aabreu@ryerson.ca.

312 Hours

Fee: \$5727.36

PUBLISHING

Learn how to turn a manuscript into a book, a report, or other document. Editing, design, production, sales and marketing, new digital workflows – master all the skills involved in this complicated process through our Publishing courses and certificate program.

Publishing

Related certificate(s): Publishing

✦ Publishing Overview: Trade

CDPB 100

This course provides an overview of all aspects of general or trade publishing, including children's and mass market books. Specific topics include the structure and economics of the publishing industry in Canada; publisher-author relations; subsidiary rights and co-publishing; administration, editorial, design, production, and marketing. Over the 13 sessions, students will take a book from conceptualization to marketing.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

✦ The Business of Book Publishing

CDPB 101

Prerequisite(s): CDPB 100 or CDPB 200

This course is designed for non-financial people who are interested in the financial and management aspects of publishing. Specific topics include strategic planning and business management; understanding financial statements, budgeting, and forecasting; the decision to publish; sales, promotion, and distribution; contracts, copyright, subsidiary rights, and legal concerns; program planning, co-publishing, and packaging; and human resources considerations.

39 Hours

Fee: \$713.15

🌀 Copy Editing for Books, Journals, and Reports CDPB 102

This course outlines the basics of copy editing: consistency, correctness, and clarity. It is useful for people interested or working in any area of publishing and document preparation, including books, journals, reports, and newsletters. The emphasis is on ways to communicate the author's message clearly and effectively to the reader. Specific topics include the editorial process; the author-editor relationship; house style and style sheets; editing on hard copy and on-screen; useful reference works; common problems in spelling, grammar, punctuation, and word usage; common issues in stylistic editing, such as reducing wordiness, editing to length, adjusting language level, and improving sentence variety; avoiding bias; editing titles and headings; editing captions, figures, tables, and maps; preparing preliminary pages and end matter, including notes, bibliographies, and appendices; conventions of different kinds of publishing; design considerations; an introduction to proofreading; editing indexes; and the job market.

Note: To enter CDPB 102, ideally you will score 80 or higher on this Diagnostic Grammar Test. This is a self-administered test to help you determine whether you should take Practical Grammar and Punctuation (CDPB 312) first.

This is a closed-book test. Give yourself 30-45 minutes to complete it. Once you have completed the test, please see the Diagnostic Grammar Test Marking Sheet for solutions.

If you score between 70 and 80 and decide to proceed directly into Copy Editing, please review grammar basics (see Practical Grammar by Maxine Ruvinisky). Under 70: we highly recommend that you take Practical Grammar and Punctuation (CDPB 312) before tackling Copy Editing.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

🌀 Production for Books, Journals, and Reports CDPB 103

This course is for individuals who are interested in the integral part production plays in the publishing process. Topics include print production management; the relationship between production, editorial, and marketing; the publishing team's structure and roles; project management and quality assurance of photography, illustration, and design; typography; prepress, proofing, paper, and printing processes (including digital printing); bindery processes; Internet applications related to print production; dealing with freelancers and suppliers; budgeting and scheduling; and emerging technologies. On successful completion of this course, the student will be familiar with an overview of the entire production process, concepts, products, and procedures for each aspect of print production, relationships within the publishing company and outside with the graphics community at large, and resources for further self-directed learning. The student will also be better prepared to manage print-related initiatives in all aspects of the publishing enterprise.

Note: Students are strongly recommended to take CDPB 100 or CDPB 200 before taking this course.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

🌀 Introduction to Book Design CDPB 104

This course outlines the basics of good book design in the context of evolving computer technology. The focus of the course is to equip the student with the knowledge, skills, and procedures necessary to make appropriate choices in designing books. Specific topics include designing appropriately for different audiences, selecting appropriate typefaces and sizes, making page layouts with photos and illustrations, matching visual structure to editorial structure, selecting appropriate materials, designing jackets and covers, and cost implications of design decisions. Although no specific computer application will be taught, students may be expected to complete assignments using either word-processing or page-layout applications.

Note: Students with experience in design or publishing may be admitted by permission of the coordinators.

39 Hours

Fee: \$747.51

🌀 Sales and Marketing for Book Publishers CDPB 105

This course analyzes current methods used in targeting and reaching an audience. Specific topics include marketing techniques; market research; managing the promotion budget; liaison with authors and editors; decision to reprint; writing of blurbs and promotional copy; preparation of catalogues and flyers; direct mail; advertising; author interviews and tours; targeting reviews; selling excerpts to magazines and newspapers; arranging displays at conferences and exhibits; special promotions; marketing and selling on the Internet; distribution and dealing with sales representatives, book clubs, and booksellers; working as a sales representative.

39 Hours

Fee: \$747.51

🌀 Publicity for Book Publishers CDPB 110

Generating publicity for a book and author plays a key role in a publisher's overall marketing plan. The quality of publicity can determine whether a book succeeds or not. In today's publishing world, creative publicity counts; the competition for people's attention is fierce. This course looks at the many types of book publicity practised today. These include author media appearances, special events, tours, and a growing number of online initiatives. We will discuss campaigns, trade shows, and the need to position clearly the book and author. Students will look at case studies, undertake research, and create media kit materials. The course will also introduce the related field of public relations, which includes developing a publisher profile, improving brand awareness, involvement in the community, and occasionally a little crisis control.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

🌀 Publishing Overview: Education CDPB 200

This course presents an overview of publishing in the following areas: elementary and high schools; colleges and universities; scholarly, legal, professional, business, and reference publishing. Students are expected to gain an understanding of the structure of these areas of the industry, who the publishers are, what they produce (from books to CD-ROMs to material delivered via the Internet), how they produce their products, who constitutes the market in the various areas, and how the publishers reach those markets.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

🌀 Literary Rights Management

CDPB 201

Prerequisite(s): CDPB 100 or CDPB 200

This course provides an in-depth introduction to literary rights management - from building a list of authors to negotiating the rights to novels and non-fiction works - from the perspective of a rights manager or literary agent. Topics include subsidiary rights such as film, television, and translation rights, working with subagents and literary scouts, the differences between selling rights for adult and children's books, and how to make the most of international fairs.

Note: Students with equivalent experience may be admitted by the permission of the coordinators.

39 Hours

Fee: \$711.82

🌀 Substantive and Stylistic Editing

CDPB 202

Prerequisite(s): CDPB 102

This course is for people interested in substantive editing, or the restructuring and improvement of book-length manuscripts for publication. Emphasis will be on gaining experience in the techniques of editing non-fiction and novels, but a full range of editorial topics will be covered, including how to assess manuscripts and acquire books; techniques for stylistic or line editing; editor-author relationships; scheduling; agents; research and permissions; and the editor's role in most aspects of the publishing process.

Note: Students with experience in editing may be admitted by permission of the coordinators.

39 Hours

Fee: \$747.51

🌀 Visual Skills for Publishing

CDPB 212

Visual literacy is the ability to interpret elements of design and understand how they are used in specific contexts, but visual skills must be honed if we are to become visually literate. This course addresses the integral role of visual communication in all aspects of publishing. Topics include the history of photography; image research and editing; permissions; editing and design of tables, graphs, diagrams, and maps; editorial-design and marketing-design interaction; technology and typography fundamentals; and effective print and web design.

Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39 Hours

Fee: \$747.51

NEW

🌀 Children's Classics in the 21st C

CDPB 300

This course focuses on children's classics: how to think creatively to keep them in print in the twenty-first century, from nursery rhymes and fairy tales to chapter books, comics, and young adult fiction. Topics will include updated designs, creating new anthologies, mining a publisher's backlist, publicity and marketing, tie-in editions with adaptations for other media, copyright regulations, abridgements and reboots, supplementary texts, and shifting notions of censorship and age-appropriateness.

19.5 Hours

HST included

Fee: \$469.66

🌀 Publishing for Children

CDPB 301

This course is designed for those who are interested in the particular considerations of publishing books for children. Through a combination of lectures, class discussion, and assignments, the following aspects are covered: different kinds of children's books, from board books to novels; working with authors and illustrators; the special design and production requirements of children's books; marketing books for young people; and issues such as censorship and sexism.

19.5 Hours

Fee: \$419.62

🌀 Government Reports

CDPB 302

Prerequisite(s): CDPB 102

This course examines the particular problems involved in the preparation and publishing of government and other reports. The approach taken is one of project management, and the skills taught are applicable to many settings. The specific topics covered include working with inexperienced writers; committees as authors and editors; explaining the production process and timetable; establishing editorial, design, and production timetables within strict deadlines; simultaneous publication in English and French; and specific requirements, including documentation and confidentiality.

Note: Students with experience in editing may be admitted by permission of the coordinators.

19.5 Hours

Fee: \$399.64

🌀 Scholarly and Reference Publishing

CDPB 304

Prerequisite(s): CDPB 102

This course provides a detailed examination of the publishing process for scholarly and reference books. Discussion focuses on the stages of publishing, including acquisition (proposal evaluation and developmental editing), editing (substantive and copy editing), production, and marketing of scholarly books. The central concerns of the editorial and marketing departments are explored at each stage, with attention to the ways in which the scholarly publishing industry differs from the trade and educational publishing industries. Other topics covered include the peer review process; budgeting for and funding of scholarly books; scholarly journals; CD-ROMs and reference books; and electronic publishing. Homework and assignments involve specific editorial skills related to scholarly and reference publishing (treatment of illustrations, tables and figures, notes, bibliographies, indexes).

Note: Students with experience in editing may be admitted by permission of the coordinators.

19.5 Hours

Fee: \$399.64

🌀 Trade Books: Fiction

CDPB 306

This course examines the publishing of fiction. Specific topics examined are working with creative writers; particular problems of novels, short stories, or collections; genre editing; and formula fiction. The course provides hands-on experience in how to evaluate problems in fiction manuscripts and the various types of editing (structural, stylistic, copy) they require. It focuses on problems that are specific to fiction, such as dialogue, setting, and character development.

19.5 Hours

Fee: \$419.62

✪ Editing Books for Children and Teens CDPB 309

Prerequisite(s): CDPB 100 or CDPB 102 or CDPB 200 or CDPB 301

This course is for those interested in editing books for young readers, from toddlers to teenagers. Topics include acquisitions of children's and YA (young adults') books; substantive editing and stylistic editing for picture books, novels, and non-fiction; author-editor relationships; and the particular considerations of editing books for developing readers.

Note: Students with experience in editing and/or within the children's book industry may be admitted by permission of the coordinators.

19.5 Hours Fee: \$419.62

✪ Proofreading for Books, Journals, and Reports CDPB 310

Prerequisite(s): CDPB 102

This course will present the knowledge and skills needed for the proofreading of typeset material, with additional attention to proofreading electronically published texts. It will be of interest to those involved in the editorial process, layout, and management of the production process. Subjects will include principles and vocabulary of typography and layout; tools and reference materials; copy-to-copy and 'cold' proofreading methods; editorial responsibilities; evaluation of typesetting practice, including word breaks, spacing, and balance; proofreading of illustrations, figures, tables, and maps; preliminary pages, headers and footers, folios, and documentation; colour checking; second and subsequent proofs; printers' proofs; and on-screen proofreading methods.

Note: Students with experience in copy editing may be admitted by permission of the coordinators.

19.5 Hours Fee: \$419.62

✪ Indexing for Books, Journals, and Reports CDPB 311

Prerequisite(s): CDPB 102

This course is for anyone going into publishing of non-fiction books, journals, or reports, or those already working in publishing who wish to add to their skill set. The focus will be on back-of-the-book indexing with additional application to journals, reports, and websites. Specific topics include general principles of indexing; kinds of indexes and their parts; the mechanics of indexing and indexing software; alphabetizing; punctuation; names and titles of publications in an index; editing an index; and the business of freelance indexing. Although the emphasis is placed on the practical craft of indexing, the art of an elegant index will also be addressed.

Note: Students with experience in editing may be admitted by permission of the coordinators.

Material Fee: Students may be required to purchase student versions of indexing software.

19.5 Hours Fee: \$399.64

✪ Practical Grammar and Punctuation CDPB 312

This course demystifies subjects that many people today find daunting. It is aimed at native English speakers who feel they write competently but who wish to improve their understanding of grammar and punctuation, either for their own writing or in preparation to study editing. It will focus on building a useful vocabulary of language terms; identifying types of words (parts of speech) and their function in a sentence; studying groups of words (phrases and clauses), how they interrelate, and how punctuation illuminates these relationships; reviewing the roles of punctuation marks; applying punctuation principles to create clear, grammatical sentences; and understanding the evolving nature of "correct" English. If English is your first language and you would like to feel more confident in your writing skills, this course will interest you.

39 Hours Fee: \$747.51

NEW

✪ Sales and Mktg for Chldn and YA CDPB 313

This course will introduce the broad scope of marketing avenues for children's books in Canada, including traditional media, social media, and online strategies. Students will analyze the challenges of the children's publishing sector by close examination of recent case studies and marketing campaigns. Specific topics include market research, managing the marketing budget, author interviews and tours, targeting reviews, how to write a press release and other promotional copy, and working as a sales representative.

19.5 Hours HST included Fee: \$469.66

✪ Digital Publishing and Production CDPB 803

Digital publishing and production is an ever-changing and integral area of the publishing industry. This course addresses the relevant technologies, workflows, and formats encompassing digital publishing. Topics include ebook formats, digital workflow, markup languages and associated technologies, digital publishing tools and processes, digital asset management, specifications, and metadata.

Note: To succeed in this course, you must know the fundamentals of computer use in either the Mac or Windows environment: creation and use of file folders; copying and deleting files; cutting and pasting; downloading files from D2L Brightspace, email, or a website; and browser use. If you do not have these computer skills, it is strongly recommended that you take Production for Books, Journals, and Reports (CDPB 103) and/or Visual Skills for Publishing (CDPB 212) before tackling this course.

39 Hours Fee: \$747.51

Publishing Intensive

CDPB 999

The Publishing Intensive allows participants to complete six of the eight courses required to earn the Certificate in Publishing through an intensive three-month (12-week) program. This unique fast-track program covers both print and digital publishing, including overviews of industry sectors, both trade and educational, as well as skills-based training in copy editing, production, sales and marketing, and design skills for publishing.

Note: Enrollment is limited to 24 students.

Priority enrollment for certificate students begins on February 8, 2016. Regular enrollment begins on February 22, 2016. To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further program information, contact the Academic Coordinators, Brad Horning and Meg Taylor, at publish@ryerson.ca.

234 Hours

Fee: \$4485.06

RADIO, TELEVISION, AUDIO/ VIDEO PRODUCTION

The School of Radio and Television Arts is housed in the Rogers Communications Centre, a multimillion-dollar facility dedicated to the study of communications and electronic media. If you're driven to be part of the multifaceted communication industry, this is the place to get started. F

Broadcasting and Media Production

Additional supplies may be required (\$30-50). Related certificate(s): Media Writing Fundamentals

★ Creative Processes

CRTA 102

This introductory course focuses on principles, theories and practices of content development for a variety of media genres, formats and distribution platforms. Students explore the development of creative and fact-based content by using processes such as rapid prototyping, iterative design, story-chasing and script writing. Students emerge from the course with an understanding of how to take their creative ideas from inception to the creation of compelling content. (Formerly BDC 102).

39 Hours

Fee: \$658.32

★ Media Writing

CRTA 212

Prerequisite(s): BDC 102/CRTA 102

Building on RTA 102 (Creative Processes), this course focuses on writing for the screen and related platforms with an emphasis on fictional storytelling. Students consider major theories and schools of writing which will inform students' work and how they tell stories. Students then build on those theories to write their own script. (Formerly BDC 202).

39 Hours

Fee: \$658.32

★ Dramatic Writing

CRTA 941

Prerequisite(s): BDC 202 or CRTA 212

This course demystifies the process of writing for the screen and encourages students to find their unique dramatic voice by writing an original script. Students analyze principles of dramatic storytelling and current dramas at the script level. Using story editing exercises, students learn how to structure a story, build dramatic tension and craft moving characters. By the end of the course, students develop an appreciation of the nature and purpose of drama. (Formerly BDC 941).

39 Hours

Fee: \$658.32

★ Advertising Copywriting

CRTA 942

This course hones the student's abilities in advertising copywriting and commercial writing. Students study and practice copywriting style and mechanics for traditional media such as radio and television and emerging and immersive methods of reaching consumers via Social Media and the Internet. Students learn effective strategies how to evaluate consumer needs and deliver a compelling message to motivate an audience. (Formerly BDC 942).

39 Hours

Fee: \$658.32

★ Comedy Writing**CRTA 943***Prerequisite(s): BDC 102 and BDC 202/CRTA 212*

This course covers the fundamentals of comedy writing with special focus on the techniques of writing comedy for television and the web with an emphasis on sketches and sitcoms. Students take part in story editing exercises, designed to simulate industry practices. This course's key goal is to develop students' creative and comic voice in their writing. (Formerly BDC 943).

39 Hours

Fee: \$658.32

★ Writing for Animation**CRTA 944***Prerequisite(s): (BDC 102 and BDC 202) or CRTA 212*

This course is designed to cover the fundamentals of writing for animated series designed for television and other platforms. Students will learn the language and process of writing for animation and consider the rich creative history of animation. Students will be required to create a fully realized animated script by the end of the semester. (Formerly BDC 944).

39 Hours

Fee: \$658.32

★ Writing for Factual and Reality Programs**CRTA 945**

In this course students learn the story chasing/development, writing techniques and production practices related to lifestyle, current affairs, science, business, entertainment and ?reality? programming. Students learn how to shape their research, found material, interviews, narration, b-roll and stills into coherent and emotionally engaging stories while working within tight constraints of time, genre and format. Students also analyze the ethical dilemmas and social trends that fact-based and reality programming represent. (Formerly BDC 945).

39 Hours

Fee: \$658.32

RTA: Media Studies

Related certificate(s): Design for Arts and Entertainment, Music: Global and Cultural Contexts

NEW**★ Music and Film****CRTA 180**

The use of music with film has evolved from early stereotyped borrowing of nineteenth century classical European repertoire to newly created scores that enhance and support the dramatic themes of the film. This course explores the relationship between music and film, the functions and effects of music and how the music supports or plays against the visual images. Analysis of selected film genres will demonstrate how music can strengthen the film's dramatic themes. (Formerly MUS 110) (LL)

39 Hours

Fee: \$658.32

NEW**★ Rhythm, Beat and Groove****CRTA 183**

Latin America's music spans nightclub salsa, Brazilian samba, Latin jazz, African-derived carnival music, Haitian voodoo, and urban hip-hop, among others, and reflects dynamic cultural fusions of past and present. Through hands-on musical exercises, lecture, and examination of audio-visual media, this course explores the socio-cultural and aesthetic impact of Latin American musical genres, with a particular focus on Latin rhythm, beat and groove. (Formerly MUS 403).

39 Hours

Fee: \$658.32

NEW**★ Chinese Instrumental Music****CRTA 406**

This course explores the traditions and practice of Chinese instrumental music through score study, analysis of instrument technique and historiography, examination of pedagogy and transmission, and ensemble performance. Traditional folk, classical, and contemporary nationalized musical forms will be studied, with a particular emphasis on the stylistic differences of once discrete regions. Instruments studied may include: dizi, xiao, erhu, yanqin, ruan, sanxian, liuqin, guzheng, and Chinese percussion. (Formerly MUS 406). (LL)

39 Hours

Fee: \$658.32

NEW**★ Chinese Music****CRTA 530**

This course explores a variety of Chinese musical genres including folk, classical, contemporary hybrid and popular forms. Topics may include: the philosophical roots of music in Chinese cosmology; music and meditation; Beijing and Cantonese opera; censorship and propaganda in the Cultural Revolution; Chinese rock in the Tiananmen Square protest; and the growth of Chinese music internationally. Both Chinese instrumental and vocal music will be examined through a socio-historical, political, and stylistic lens. (Formerly MUS 506). (UL)

39 Hours

Fee: \$658.32

RETAIL MANAGEMENT

Far-reaching trends in everything from technology to philosophy have transformed the retail industry. Today you must keep a watchful eye on global advancements while you master electronic communications and devise strategies to keep one step ahead of the competition. Ryerson, the only university in Ontario to offer a Bachelor of Commerce degree in Retail Management, can prepare you. Our Retail Management program was designed with the input of industry leaders and blends the most modern aspects of retail with the traditional components.

Retail Management

All CRMG course fees include a \$2.00 fee for materials. For further information, see Material Fees. Related certificate(s): Entrepreneurship and Small Business, Retail Management

★ Intro to Retail and Services Management **CRMG 200**

Retailing is one of the most fascinating, challenging and multi-faceted environments, business students will be exposed to. The objective of the course is to provide both an understanding of the key retail strategy components as well as change the student focus from a consumer to a business manager. This will be accomplished through examining the many key functional areas within a retail business including location and market strategy, store design and layout, merchandise planning, human resources, financial strategy and customer relationships. The understanding of these functional areas will illustrate how retailers can adapt to the competitive and continually changing environment by formulating strategies, which result in profitable performance. An introduction to retail profit drivers will be a key element of the course.

39 Hours

Fee: \$752.21

★ Retail Operations Management **CRMG 301**

Prerequisite(s): CRMG 200

This course will focus on how retail companies compete by designing and operating effective value chains. Operations strategy guides retailers as they buy merchandise and move it to the marketplace via efficient processes. Internal and external value chains are linked so that costs are reduced and inventory levels are optimized. The processes, that are the building blocks of successful retail organizations, include planning, inventory management, location selection and resource scheduling.

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

Note: This course is part of the Retail Operations Course Series.

39 Hours

Fee: \$588.83

★ Retail Consumer Insight **CRMG 302**

Prerequisite(s): CRMG 200;

Antirequisite(s): CMKT 400 and CMKT 502

The course introduces the key theoretical concepts to the understanding of consumer behaviour. Building on this foundation the retail/consumer relationship will be examined through the case study method. Topics such as the retail brand, consumer research and value equations will be introduced and examined.

39 Hours

Fee: \$708.71

★ Service Quality Management **CRMG 303**

Prerequisite(s): CRMG 200;

Antirequisite(s): CHTH 102

The quality of service that customers experience in retail settings is affected by many factors. As a result, the challenge for retailers is to provide an environment that instills a focus on customers and delivers the service required to satisfy those customers. This course introduces students to service quality management frameworks and principles. It examines how these principles are reflected in key organizational and management strategies, particularly those related to the management of the retail workforce.

Note: This course is part of the Retail Operations Course Series.

39 Hours

Fee: \$677.95

★ Buying Process I **CRMG 400**

Prerequisite(s): CRMG 200

This course examines the role of the buyer and his/her place in the marketing function of retail organizations. Course content focuses primarily on the procurement process, and intended outcomes include a thorough understanding of the buyer's contribution to assortment and resource development, relationships with other functions within the organization and interpretation of target customer needs. (Formerly FSN 451.)

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

Note: This course is part of the Retail Buying Course Series.

39 Hours

Fee: \$588.83

★ Intro to Logistics and Supply Chain Mgmt **CRMG 434**

Prerequisite(s): CRMG 200

This course serves as an introduction to the fundamentals of global supply and distribution networks management (traditionally known as Supply Chain and Distribution Channel). The course is primarily focused on the planning, implementation, monitor and control of global, regional and local distribution networks in support of retail business operations. The course covers fundamentals of supply and distribution networks, the link between distribution networks and marketing strategies, and the link between supplier networks and inventory management. Supply and distribution networks include aligning supply networks with corporate strategies, implementation of corporate sustainability and social responsibility related policies, global transportation, and supporting information technology. Throughout the course, analytical tools and methods are utilized to support decision making and manage supply and distribution networks uncertainty.

39 Hours

Fee: \$677.95

★ **Visual Merchandising and Space Planning** **CRMG 452**

Prerequisite(s): CRMG 200

Students will study the theories and practices related to visual merchandising and space planning. An examination of leading edge visual merchandising practices will be explored with respect to in-store design and layout. Space planning software will be used to plan in-store displays, window and fixture design and configuration. (Formerly FSN 452.)

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

Note: This course is part of the Retail Operations Course Series.

39 Hours

Fee: \$588.83

★ **Retail Strategy** **CRMG 500**

Prerequisite(s): RMG 700 and CFIN 300 Antirequisite(s): BUS 800

This course examines how ethical marketing and operational strategies can be utilized by retailers to improve performance in a highly competitive and rapidly changing multicultural environment. The strategic planning process will be explored from the perspectives of both small and large retailers. Environmental analysis, strategy development, implementation and control issues will provide a framework for the course. A variety of teaching and learning methods will be used to examine issues and foster reflective thinking among students.

39 Hours

Fee: \$588.83

★ **Franchising** **CRMG 902**

Prerequisite(s): CRMG 200

The focus of this course is on business format franchising - the transfer of a particular business format or way of conducting business. The costs and benefits of franchising from both the franchisee's and franchiser's point of view will be explored. Franchiser/franchisee communication and relationship will be discussed. Students will examine how to determine the feasibility of a franchise opportunity, the legal dimensions of franchising, characteristics of the typical franchisee, and international franchising as a means of expansion.

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

39 Hours

Fee: \$588.83

★ **Relationship Marketing** **CRMG 907**

Prerequisite(s): CRMG 200

The relationship between the consumer and the retailer has been perceived as a transaction and marketing strategy has been based on this perception. Retailers are moving to an ethical relationship view of the buying process - the building of a long term relationship with the customer as the central theme of marketing strategy. This course will explore the underlying theories, values and benefits of doing business through one-to-one relationships with consumers using technological advances. A one-to-one customer-centric approach enables retail marketers to reach customers from multicultural backgrounds, a distinguishing feature of the Canadian marketplace.

39 Hours

Fee: \$588.83

★ **Advanced Buying Process II** **CRMG 909**

Prerequisite(s): CRMG 400

This course compliments Buying Process I by introducing students to concepts of merchandise management. Course content emphasizes analytical and quantitative aspects of merchandising planning and expected outcomes include a complete understanding of financial strategy as it relates to merchandise management, the development of dollar merchandise plans, measures of productivity and vendor performance analysis. Information technology and decision support systems represent and integral part of the course content. (Formerly FSN 551)

Note: This course is part of the Retail Buying Course Series.

39 Hours

Fee: \$588.83

★ **Multi-Channel Retailing** **CRMG 910**

Prerequisite(s): CITM 350 or CRMG 200

"Multi-channel retailing provides the student with a comprehensive view of the dominant theme for retailers in the 21st Century. The course focuses on the importance of operating and integrating multiple channels of merchandising. By providing an integrated solution to the consumer the retailer reinforces its brand, responds to the consumer's buying patterns, increasing sales and customer loyalty. An integrated multi-channel strategy must be seamlessly linked and present the same marketing face to the customer. The course helps the student to develop the skills to analyze a firm's current multi-channel strategy and recommend an integrated strategy to help meet customer needs: optimize sales effectively and efficiently for the retailer. The student will have the opportunity to reinforce her learning through a consulting assignment to a firm in the industry."

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

39 Hours

Fee: \$588.83

★ **Retail Sales Management** **CRMG 911**

Prerequisite(s): CRMG 200

Based on the notion that salesmanship and effective selling have been lost in the role they play in delivering exceptional customer service and improved GMRSS. Focus on building effective leadership skills and programs for selling and the relationship to increasing productivity and customer loyalty.

39 Hours

Fee: \$658.85

★ **Managing B2B Channels** **CRMG 916**

Prerequisite(s): CRMG 200 and CMKT 100

This course will explore how organizations leverage channels of distribution for value creation and competitive advantage. It delves into strategies that companies use to bring products and services from their point of origin to their point of consumption. Product proliferation, media fragmentation, retailer power and the internet have required excellence in channel design and management. The course will cover key concepts and strategies related to channel management, in light of traditional and new channels of distribution.

39 Hours

Fee: \$658.85

★ Visualizing Data for Decisions

CRMG 919

Prerequisite(s): CRMG 200

Retail is detail. A retail company collects volumes of data: what was sold, what size, when, at what price, and by whom. But with so much data, it is difficult to “see the forest from the trees?”. Powerful software is now available that enables managers to visualize the data, understand the trends and be able to make informed business decisions. In this course, students will learn how to find answers to complex business problems by using tools that enable data to be visualized. They will analyze large data sets, gaining practical experience.

39 Hours

Fee: \$658.85

★ Leading in Retail Service Organizations

CRMG 925

Prerequisite(s): CRMG 303

This course focuses on the processes involved in the alignment and implementation of service management strategies. Its emphasis is on the optimization of operational capacity and capability, including facets of customer satisfaction, the engagement of the retail workforce and the use of problem solving techniques. In particular, students will develop organizational leadership strategies oriented to the alignment of these strategies and to the development of an engaged and productive workforce.

Note: The prerequisite may be waived if the student has specific professional experience. Individuals who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Sean Sedlezky, at ssedlezk@ryerson.ca for more information.

Note: This course is part of the Retail Operations Course Series.

39 Hours

Fee: \$658.85

🔗 Industry Project

CZRM 100

Prerequisite(s): Department consent

This course will serve as an optional “capstone” project for individual students with an interest in completing a major independent study or for a company-sponsored cohort to provide an experiential learn project that is integrated with corporate training initiatives and current retail problems.

Note: Students must complete five credits toward the certificate and submit a request to the department before enrolling in this course to ensure appropriate academic foundation and identification of a faculty advisor.

39 Hours

Fee: \$706.41

ROBOTICS AND EMBEDDED SYSTEMS

These components – mobile, miniature, or standard – are utilized in different types of applications, including telecommunications, power distribution, electrical and electronic products, transport, and factory, medical, or commercial automation systems. Embedded systems are present in a wide range of manufactured products and system components. The infusion of this technology is expected to grow at a phenomenal pace and has increased the demand for professionals who are technologists with simultaneous expertise in both software and hardware.

Robotics and Embedded Systems

Related certificate(s): Robotics and Embedded Systems

🔗 Embedded Systems Programming

CKRE 100

This course provides students with knowledge on the differences between embedded design and traditional electronic device design. Students engage in hands-on experiences of embedded systems applications and design procedures through the planning and execution of design phases. Hands-on robotics and embedded systems device development is facilitated with an embedded system development kit. This course also provides project management process flow-throughs on planning and executing complete robotics and embedded systems designs, including the document system requirements for new designs as well as those for improving existing systems.

Note: C programming experience is recommended.

39 Hours

Fee: \$756.40

🔗 Digital Logic and Hardware Architecture

CKRE 110

This course provides the core knowledge and competencies of logic design, Boolean algebra, and essential Verilog and VHDL statements describing behavioural functions such as counters and other finite state machines. Participants master the ASIC design flow from examples of logic and circuit design analysis, computer abstractions, and performance metrics.

39 Hours

Fee: \$756.40

🔗 Programming Robotics Systems

CKRE 120

Embedded software is found in today’s electronic and robotic devices. This hands-on course introduces and then augments participants’ knowledge of C programming, including the embedded language features required for robotics and embedded systems programming. The course expands participants’ competencies in embedded systems programming, including practical, hands-on, in-class programming activities.

Note: It is recommended students take CKRE 100 and have C programming experience prior to taking this course.

39 Hours

Fee: \$756.40

🔗 Embedded Systems Hardware Architecture and Implementation

CKRE 130

This course provides a broad overview of robotics and embedded systems architecture. Students will gain a working and practical knowledge of embedded hardware, firmware, and applications. The course covers concepts pertaining to current embedded technology as it exists in the industry today, including many diagrams and applicable computer code.

39 Hours

Fee: \$756.40

🔗 Real-Time Embedded Systems Programming

CKRE 140

This course will introduce and explore the programming language and operating systems facilities essential to the implementation of real-time, reactive, embedded, robotic, and/or networked systems. It will provide the knowledge of practical system issues raised from design and programming. Differentiated issues arising from design, concurrent, reactive, safety-critical and embedded systems will be explored in depth. Simple hands-on development is facilitated with an embedded system development kit.

Note: It is recommended students take CKRE 100 and have C programming experience prior to taking this course.

39 Hours

Fee: \$756.40

🔗 Emerging Issues in Robotics and Embedded Systems

CKRE 150

This capstone course will allow participants to synthesize and apply what they have learned to robotic or embedded device design, device building, and implementation. Participants will analyze selected case scenarios and best practices when building their embedded device product. The final work project allows participants to demonstrate a broad mastery of learning across the curriculum and to hone their ability to employ specific strategies that incorporate best practices and meet regulatory requirements. The work project and resulting embedded device product may be used by the participant for career portfolio purposes.

Note: This course may be taken as individualized study/directed reading; please contact the Academic Coordinator, Alex Ferworn, at [aferworn@ryerson.ca](mailto: aferworn@ryerson.ca) prior to enrolling.

39 Hours

Fee: \$756.40

Robotics and Embedded Syst Fast Track

CKRE 999

This intensive program offers students a fast track to completion of the Certificate in Robotics and Embedded Systems. With over 12 weeks of intensive, full-time study, participants will complete all six courses required to earn the certificate.

Note: To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further information, contact Academic Coordinator Alex Ferworn at [aferworn@ryerson.ca](mailto: aferworn@ryerson.ca).

234 Hours

Fee: \$4538.40

SOCIAL SCIENCES AND HUMANITIES

These interdisciplinary courses are offered by various departments in the Faculty of Arts and provide a good foundation for pursuing academic study, particularly programs in the humanities and social sciences. Topics include learning and development strategies, critical thinking, academic writing, research design, and qualitative methods.

Social Sciences and Humanities

Related certificate(s): Social Sciences and Humanities Foundations

★ Learning and Development Strategies

CSSH 102

The development of effective learning strategies appropriate to particular situations is a crucial skill for thriving in a university setting and for life beyond formal education. Students in this course will reflect on the dynamics of formal education in the 21st century, assess their own learning needs and develop appropriate strategies for evaluating information, practicing effective communication and pursuing substantive learning. This course includes opportunities for team work, application and skill development. (Formerly ACS 102).

39 Hours

Fee: \$586.29

★ Critical Thinking I

CSSH 105

Antirequisite(s): CPHL 214

Rational discourse has long been viewed as a principal force for social change. In this course, we will examine the structures and principles that undergird all forms of rational discourse, and we will learn how to assess the logical strength and persuasiveness of particular discourses. These skills will be applied to arguments found in everyday life, and to the formulation of one's own positions. (Formerly ACS 105)

39 Hours

Fee: \$586.29

★ Academic Writing and Research

CSSH 205

From an interdisciplinary perspective, this course introduces the fundamentals of research, interpretive skills, and argument-based essay writing. Writing-intensive, the course explores some of the social and cultural implications of written communication. By examining a variety of texts, many of which address the interface of culture and technology, this course asks how we write and why.

39 Hours

Fee: \$586.29

★ Research Design and Qualitative Methods

CSSH 301

This course will focus on the student gaining an understanding of the uses of qualitative research designs and techniques. Topics include sampling methods, questionnaire design and implementation, interviews, focus groups, participant observation, and action research. Methodological assumptions, concepts and procedures will be presented. Students will develop their ability to review existing literature and to construct their own research. (Formerly ACS 301)

39 Hours

Fee: \$576.75

SOCIAL WORK

Your awareness of human diversity gives you insight – it's what motivates you in your fight to help solve social problems. If you want to work for social change in an urban environment, these courses are for you.

Social Work

Related certificate(s): Aboriginal Knowledges and Experiences, Accessibility Practices: AODA and Beyond, Community Engagement, Leadership, and Development, Nursing Leadership and Management, Advanced

★ Social Policy: Welfare and Programs **CSWP 302**

Prerequisite(s): (SWP 132 and SWP 331) or 3rd Semester Advanced Standing

This course examines major concepts, roots, and social, cultural, political and economic trends shaping social policy and social welfare in Canada. It explores the increased needs for social protection and the desires for recognition by diverse groups and focuses on the impacts of the re-structuring of social systems and globalization on exclusion and structural inequalities. The discussions address social welfare programs, practices and current challenges for service users, social work and social change. (SWP 302 and SWP 402 replace former equivalent course SWP 22A/B).

39 Hours

Fee: \$593.72

★ Power, Resistance and Change **CSWP 335**

Prerequisite(s): (SWP 132 and SWP 331) or 3rd Semester Advanced Standing

Theories of power and oppression, understandings of intersectionality, forms of resistance, and processes of social change will be examined in the course. Identified social issues and problems will be related to social work theory and practice. The course emphasizes skills of critical thinking, self-reflection, and dialogue and their relationship to social change processes.

39 Hours

Fee: \$593.72

★ Social Policy and Social Inclusion **CSWP 402**

Prerequisite(s): All 3rd and 4th Semester Required courses or Direct Entry

Building on SWP 302, this course focuses on approaches and tools for social action and social change, moving students from a theoretical knowledge of social policies to a practical, action-oriented focus on making social claims visible and building program capacity. It examines issues of governance, funding structures, voices, exclusionary processes, and experiences with the social welfare system. The course explores strategies of collaboration and citizen engagement for social inclusion and social change. (SWP 302 and SWP 402 replace former equivalent course SWP 22A/B).

39 Hours

Fee: \$593.72

★ Race and Ethnicity **CSWP 900**

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry

This course examines current debates around the concepts of race and ethnicity in Canada. The historical and contemporary social context of race and ethnicity will be examined with respect to interrelated discourses of gender, class, sexual orientation, nation, and colonialism. Anti-oppression and anti-racism responses will be explored.

39 Hours

Fee: \$593.72

★ Special Topics I

CSWP 917

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry

This course provides students with the opportunity to pursue advanced seminar studies on issues and themes of immediate and current significance in the field of social work, where the content of the proposed seminar is unavailable in the curriculum. Seminars will be offered where there is demonstrated student interest, and available faculty expertise in the subject.

39 Hours

Fee: \$589.48

★ Special Topics II

CSWP 918

Prerequisite(s): Department consent

This course provides students with the opportunity to pursue advanced seminar studies on issues and themes of immediate and current significance in the field of social work, where the content of the proposed seminar is unavailable in SWP 917 or in the curriculum. Seminars will be offered where there is demonstrated student interest, and available faculty expertise in the subject.

*Note: This course will focus on international social work. *The course fee for this section may differ, as this section is restricted to registered Certificate in Canadian Social Work Practice students in the IESW program.*

39 Hours

Fee: \$593.72

☆ Substance Use and Abuse

CSWP 919

Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry

This course provides a framework for understanding fundamental concepts in substance use and critically examining addiction as a social construct. It addresses some key domains in the addiction field, including: underlying theories of addiction, stigma and its impact on diverse populations, pharmacology, screening and case management, Canadian drug policy, prevention and harm reduction. Students will gain a critical understanding of the scope of the addiction field and its relevance to direct practice and social policy.

39 Hours

Fee: \$593.72

★ Disability, Community and Society

CSWP 921

*Prerequisite(s): All 3rd and 4th Semester Required Courses or Direct Entry;
Antirequisite(s): CDST 501, CINT 902*

This course provides a framework for critically analyzing disability issues consistent with an anti-oppression/social justice perspective, one that explores the societal roots of disability disadvantage. Students are introduced to the concepts of oppression, devaluation, ableism, and intersectionality and to a range of theories including social role valorization. We challenge some of the traditional (and damaging) assumptions made about the perceived ?needs? of disabled people and examine strategies that can make a positive difference at the individual, community and societal levels.

39 Hours

Fee: \$593.72

★ Strong Helpers' Teachings

CSWP 925

Ogitchita Luwatilihunyunih (Aboriginal Translation) is designed to build upon the content and learning from SWP435. It provides students with an understanding of an anti-colonial theoretical framework when approaching social work with Aboriginal peoples. Students examine how social policies and research inform social work practice with Aboriginal peoples, with an emphasis on self-determination/sovereignty and Aboriginal research methodologies. They gain an understanding of the strengths of Aboriginal worldviews in helping others and address how to integrate these into their practice.

39 Hours

Fee: \$589.48

★ Indigenous Health and Well Being**CSWP 933**

Taking a global perspective, Indigenous health and wellness will be explored through the decolonizing theoretical framework of the Anishinaabe Medicine Wheel - a balance of physical, mental, emotional and spiritual well-being. The health status of Indigenous people globally, the Indigenous peoples of North America, and more specifically Aboriginal peoples of Canada will be discussed through social and political determinants of health lens. The course will also focus on promising health promotion practices and programs.

39 Hours

Fee: \$593.72

★ Community Engagement Foundations**CSWP 934**

This course will establish the historical evolution and theoretical underpinnings of community engagement as a process for enacting and supporting active citizen participation in community and civic affairs. The student will learn models, principles, and methods of community engagement. The course will cover a range of analytic frameworks from which action on community engagement and community development can occur.

39 Hours

Fee: \$593.72

★ Engaging Diverse Communities**CSWP 935**

This course will focus on building practice skills for working with diverse communities and engaging excluded groups in order to improve the well-being of their neighbourhoods and/or organizations. Students will learn to assess and understand the demographics of an area, the implications of these findings for guiding community outreach and engagement initiatives successfully, and how to develop and support implementation of an engagement plan with diverse communities and groups.

39 Hours

Fee: \$593.72

★ Community Engagement Practices**CSWP 936**

This course will study best practices for community capacity-building and improving community well-being. It will focus on the knowledge and skills required to effectively support the community engagement process. Case studies and experiential exercises will be used in the course to convey the skill-set that a community practitioner needs for effective community engagement and leadership development.

39 Hours

Fee: \$593.72

★ Community Engagement Capstone**CSWP 937***Prerequisite(s): Department consent*

This capstone course provides an opportunity to integrate and apply the knowledge and skills acquired through previous courses. Individually or in small groups, and with course instructor approval, students select a project that reflects their own personal or professional interests. Examples of possible projects include the development of a presentation based on analysis of a set of real life scenarios or the analysis of a community issue or situation from the student's own professional milieu.

39 Hours

Fee: \$593.72

🌀 Aboriginal Knowledges in Practice**CVSW 932***Prerequisite(s): Department consent*

The goal is to integrate and apply knowledges gained from previous courses. Learning opportunities are available for students working in non-Aboriginal and Aboriginal work places as well as those who are non-employed or students. Students will be given an opportunity to select a project that relates to their personal or professional interest when possible. The project or research focus is intended to promote positive change.

39 Hours

Fee: \$619.89

SOCIOLOGY

Courses offered in Sociology are designed to encourage the critical examination of today's complex society and to broaden individuals' understanding of the world in which they live. Note: Students enrolled in Ryerson degree programs are responsible for ensuring that any course selected from those listed below meets the specific requirements of their program.

Sociology

Related certificate(s): Community Engagement, Leadership, and Development, Criminal Justice and Criminology, Demographic Analysis, Ethics, Food Security, Gerontology, Social Sciences and Humanities Foundations

★ How Society Works

CSOC 103

Antirequisite(s): CSOC 11B, CSOC 104, CSOC 105, SOC 111

This course provides an introduction to some of the major issues in sociology. It examines how societies come into existence, how they are organized and maintained, and how they change. The major sociological perspectives are used to understand the relationship between culture, institutions and social behaviour; the process of socialization; globalization and the political-economic structure of Canadian society; and the resulting social inequalities of class, race and gender. SOC 103 is not available for credit to students who choose SOC 11A/B or SOC111 or SOC112, SOC104, or SOC 105, or SOC 107. (LL)

39 Hours

Fee: \$595.84

★ Understanding Society

CSOC 104

Antirequisite(s): CSOC 11B, CSOC 103, CSOC 105, SOC 111

This course provides an introduction to some of the major issues in the discipline of sociology. Topics include: the major theoretical debates of classical sociology; research methods and problems; culture and socialization; the evolution of human societies; and the structure of Canadian society. Professionally-related examples are used throughout the course.

39 Hours

Fee: \$595.84

★ Introduction to Sociology

CSOC 105

Antirequisite(s): CSOC 11B, CSOC 103, CSOC 104, SOC 111

This course presents the major schools of sociology, which include Functionalism, Critical Theory, Feminism, Interactionism, and Postmodernism. These schools are used to examine a number of fundamental social inequalities such as those based on class, race, ethnicity, gender, and sexuality. In addition, through the lenses of the major schools of sociology, this course also examines the impact of contemporary media institutions and communications technologies on the social construction of knowledge and the construction of socially significant identities and ideologies.

39 Hours

Fee: \$646.77

★ Sociology of the Everyday

CSOC 107

A sociological perspective allows us to see generality in particularity, and strangeness in the familiar. This course gives the students a sociological perspective useful for investigating ordinary, common everyday activities and interaction that most of us find routinely engaging. Some concentration is provided to the urban experience of everyday life. Through examining seemingly mundane behaviours—eating, chatting, watching TV, etc., students study underlying structures that shape social behaviour and learn about historical and qualitative social research methods.

39 Hours

Fee: \$646.77

★ Popular Culture

CSOC 202

Antirequisite(s): SYC 185

What is considered popular culture is up for debate. This course examines different ideas about popular culture and how they inform our personal politics, consumption practices, and common-sense ideas about the world. We consider how different cultural industries are shaped, packaged for consumption, but sometimes resisted. Using a critical approach we sociologically examine cultural forms such as advertising, social activism, television, the cult of celebrity, music, electronic and film media, leisure customs, and everyday practices. (LL)

39 Hours

Fee: \$595.84

★ Social Class and Inequality

CSOC 203

Antirequisite(s): SOC 420

This course examines the distribution of power and wealth in society. As a social reality, inequality leaves no one untouched, whether or not we are conscious of it. This course traces the origins of social inequality and reflects on the various interpretations of social stratification. At the macro level, analysis examines how patterns of inequality are reproduced and altered over time. At the micro level, analysis considers how inequality shapes individual career choices and other experiences. (LL)

39 Hours

Fee: \$595.84

★ Sociological Perspectives on Crime

CSOC 319

Prerequisite(s): CSOC 103 or CSOC 104 or CSOC 105 or SOC 111

This course examines the social context of crime in Canadian society. Issues include the social construction of crime, problems of measuring crime, the major sociological explanations of crime, and the social role of the police professional.

39 Hours

Fee: \$576.75

★ Immigration, Borders and Belonging

CSOC 474

Prerequisite(s): CSOC 103 or CSOC 104 or CSOC 105 or SOC 107

Immigrants, refugees, and temporary migrant workers are a part of a global phenomenon of population migration. This course provides an overview of Canadian immigration history, trends, policies, and theories, from a sociological perspective. We will examine migration issues and contexts, with attention to diversity, inequality, citizenship, identity, and belonging. We will look at the obstacles, challenges and opportunities for newcomers and long-term immigrants and their descendants both in the Canadian and global contexts

39 Hours

Fee: \$576.75

★ **Youth and Society** **CSOC 500**

Prerequisite(s): CSOC 103 or CSOC 104 or CSOC 105 or SOC 111

This course examines youth in contemporary society, their behaviour, roles, hopes, expectations and attitudes. It places young people within a sociological framework that emphasizes contemporary social, economic and political realities. The variables of social class, race and ethnicity, and gender are stressed; and key issues such as youth and media, the law, the family, employment and education are explored in depth.

39 Hours

Fee: \$576.75

★ **Violence and the Family** **CSOC 502**

Prerequisite(s): CSOC 11B or CSOC 103 or CSOC 104 or CSOC 105 or CSOC 107 or SOC 111 or Direct Entry

This course explores the nature of violence, its manifestations in family life, its root causes, its consequences, and the social reaction to this violence. The family is viewed as a major social institution that is affected by the changes that occur within society. The primary goal is to facilitate students' understanding of violence and its relationship to family life within the socio-cultural context.

39 Hours

Fee: \$576.75

☆ **Health and Society** **CSOC 506**

The health care system in Canada is in crisis. Using relevant contemporary sociological theory, this course examines the historical evolution of modern medicine and the medical model, and their implications for society, health, and health care today. Topics include: the distribution of health and illness within Canadian society, environmental and occupational health, aging and health, gender issues in health care, and medical technology and ethics. (UL)

39 Hours

Fee: \$576.75

☆ **Race and Ethnicity in Canadian Society** **CSOC 507**

Antirequisite(s): SOC 300, POG 313

This course provides an introduction to the concepts, theories and research methods most relevant to the study of racism and ethnicity in everyday life. The development of multicultural societies and the historical context of racial and ethnic groups in Canada are examined. The role and impact of governmental and non-governmental policies (on immigration, employment and employment equity for example), will be discussed in the context of a variety of social institutions such as schools and the judicial system. SOC 507 is not available for credit to students who choose SOC 300 or POG 313. (UL)

39 Hours

Fee: \$576.75

☆ **Sociology of Gender** **CSOC 603**

This course examines the historical and cross-cultural expressions of gender inequality, and its consequences for both men and women. Emphasis is also placed on issues related to gender inequality in contemporary Canada, including gendered divisions in the workplace and the family, the role of governments in equity issues, and the process of socialization. The course concludes with an examination of prospects for the future. (UL)

39 Hours

Fee: \$576.75

★ **Families: Difference and Diversity** **CSOC 605**

Prerequisite(s): CSOC 11B or CSOC 103 or CSOC 104 or CSOC 105 or SOC 111 or Direct Entry;
Antirequisite(s): SOC 21B

Family life is shaped by social, economic and legal forces. This course is designed to explore how family structures and family dynamics have changed over time. The course looks at topics such as colonization, immigration, cohabitation, heterosexual and same sex marriage, childrearing theories, violence, divorce and remarriage. The course also explores the importance of laws and state policies for family structures.

39 Hours

Fee: \$576.75

★ **Work and Families in the 21st Century** **CSOC 606**

Prerequisite(s): CSOC 11B or CSOC 103 or CSOC 104 or CSOC 105 or SOC 111 or Direct Entry;
Antirequisite(s): SOC 21B

Family life is shaped by the relationship between the division of labour in the home and employment responsibilities in the workplace. This course is designed to explore how divisions of labour in the home and the workplace have changed over the years. The course looks at topics that include the gender and racial division of labour in the paid workforce and the home, motherhood, fatherhood, pregnancy work, as well as informal and marginal paid work such as sex work and migrant labour.

39 Hours

Fee: \$576.75

★ **Women, Power and Change** **CSOC 608**

Prerequisite(s): CSOC 11B or CSOC 103 or CSOC 104 or CSOC 105 or SOC 111 or Direct Entry;
Antirequisite(s): SOC 28 A/B

This course examines the development of Canadian feminist movement, theories, issues, and practices and its impact on the lives of females and males in Canada. Globalization and issues of inequality and diversity among girls and women frame the exploration of the Canadian female condition in the paid and unpaid work realms, from the 1800s to the present.

39 Hours

Fee: \$585.23

★ **Women and Human Rights** **CSOC 609**

Prerequisite(s): CSOC 11B or CSOC 103 or CSOC 104 or CSOC 105 or SOC 111 or Direct Entry;
Antirequisite(s): SOC 28B

This course examines the abrogation of fundamental rights and the social control of girls and women in historical, contemporary and cross-cultural perspectives. The patriarchal policies and practices of the state are examined around issues of law and public policy, marriage, same-sex relationships and custody, sexual violence and pornography, sexuality and reproductive control, education and healthcare. The role of religion and media in legitimizing and maintaining patriarchal structures and in denying rights are also explored.

39 Hours

Fee: \$585.23

☆ **Sex, Gender Identities and Sexualities** **CSOC 633**

This course examines the social and personal significance of sexuality in our lives and the relationship between the two. It discusses sexuality as it intersects with topics such as sexual orientation, race, disability, gender identity, sex work, the military, fashion and music. In a world where same sex relations, trans identities and non-heteronormative identities are becoming more common, how is it they are still highly problematic for many individuals, families, cultures and religions? (UL)

39 Hours

Fee: \$576.75

★ **Law and Justice**

CSOC 705

In our highly regulated society, law has become an increasingly significant element. The course analyses the nature and functions of law in society, how law influences social behaviours, and how social values and actions shape law. The degree to which justice is served by law is a central question. The course focuses primarily on Canadian law but comparative materials are also used. (UL)

39 Hours

Fee: \$576.75

★ **Sociology of Food and Eating**

CSOC 808

This course provides insights on social, historical and economic processes that shape what and how we eat. We will review how the food system is organized and how it affects people's food choices. We will discuss the relations between broader social and economic structures, such as class and gender relations, access to food, and everyday eating practices. We will also study causes of problems in the food systems, such as hunger, obesity and the farm crisis. (UL)

39 Hours

Fee: \$576.75

☆ **Information Technology and Society**

CSOC 880

Antirequisite(s): COCR 941

Information technology is now one of the major influences in modern life. Given the unprecedented rates of change, how do we formulate reasonable expectations? How do we make choices when we don't know what the future of technology holds? To answer questions such as these, we need to learn more about the interaction between technology and society. This course looks at the use and impact of information technology in areas such as engineering, medicine, manufacturing, education and law. It looks at issues such as privacy, personal dignity, and the kind of life we want to lead. The course provides a historical framework and ideas which may be applied to other areas of technological change. (UL)

39 Hours

Fee: \$576.75

☆ **Women and Islam**

CSOC 885

This course will explore the position of women and gender relations in contemporary Muslim societies and North American Muslim communities, introducing a comparative perspective to the issues of Muslim women in their homelands and diaspora. Our discussions will focus on comparing different controversial issues within Islam, such as Muslim women's identity, veiling, Muslim family life, Muslim women in the war zones, and Muslim women's activism in their homeland and in the United States and Canada. (UL)

39 Hours

Fee: \$576.75

SPANISH

These courses cover Spanish language and literatures and cultures in Spanish-speaking countries. CSPN 101 to CSPN 601 are language courses designed for non-native speakers. For Spanish language courses (CSPN), all students must take the Spanish Placement Test on the Department of Languages, Literatures, and Cultures website or attend one of our interview/placement assessment sessions.

Spanish Studies courses (CSPS) are taught in English and cover Spanish and Latin American literary and cultural topics.

Spanish

Related certificate(s): Caribbean Studies, Spanish, Proficiency in

☆ **Introductory Spanish I**

CSPN 101

This course for students with no knowledge of Spanish uses a communicative approach, emphasizing oral comprehension and expression without omitting the written aspects of Spanish. Students learn basics of grammar. Historical, social and cultural aspects of the Spanish-speaking world are introduced through the study of short readings. Not open to students who have completed Gr. 12 or OAC Spanish. An online placement test is required. (LL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$530.07

★ **Introductory Spanish II**

CSPN 201

This course uses a communicative approach emphasizing oral comprehension and expression without omitting the written aspects of Spanish. Students develop their knowledge of the basics of Spanish grammar. Historical, social and cultural aspects of the Spanish-speaking world are introduced through the study of longer readings. Not open to students who have completed Grade 12 or OAC Spanish. An online placement test is required. (LL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$520.52

★ **Intermediate Spanish I**

CSPN 301

This course for students with a basic knowledge of Spanish uses a communicative approach to learning a new language. Students become increasingly familiar with complex sentence structures and with the vocabulary required for a good working knowledge of the language. Appropriate cultural readings and exposure to the Spanish-speaking world are integral parts of the course. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$520.52

★ Intermediate Spanish II**CSPN 401**

This course for students with an intermediate knowledge of Spanish uses a communicative approach to learning a new language. Students become increasingly familiar with complex sentence structures and with the vocabulary required for a sound working knowledge of the language. Appropriate cultural readings and exposure to the Spanish-speaking world are integral parts of the course. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$520.52

★ Spanish Conversation and Pronunciation**CSPN 402**

This PR/PE course is intended to enhance oral proficiency by focusing on vocabulary expansion, knowledge of syntax, auditive comprehension, and correct pronunciation and intonation. Some emphasis will be placed on the significance of linguistic registers and regional varieties of Spanish. Students will improve their Spanish through a range of oral practice activities including the analysis of audiovisual materials, films and plays as well as discussion of written texts from a variety of sources.

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$640.40

★ Advanced Spanish I**CSPN 501**

This course is for students who have achieved an intermediate level of fluency in Spanish and who wish to develop their listening comprehension, oral communication, correctness and spontaneity of expression, sensitivity to language registers as well as the written aspects of the language. Newspaper clippings, magazine articles and videos introduce students to various aspects of the Spanish-speaking world. A novel or play is studied, and short essays and commentaries improve writing and analytical skills. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$515.21

★ Spanish Grammar for Native Speakers**CSPN 510**

This course, taught in Spanish, is intended for students who grew up in a Spanish-speaking environment and need to acquire a formal knowledge of the written language. Grammar is taught through the four skills of language acquisition but the focus is on spelling, idiomatic expressions, and vocabulary. Weekly readings introduce students to the complexity of the Spanish grammar, through readings on the rich diversity of the Hispanic world, particularly their own cultural and literary heritage. (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$640.40

★ Introduction to Business Spanish**CSPN 515**

This course, offered in Spanish, is intended to introduce students with an intermediate level of fluency to the Spanish-speaking business world, through the study of realistic situations and specialized vocabulary. Students will study business documents such as letters, memos and job applications in order to have a sound knowledge of written business Spanish. They will use oral activities such as role play to develop their understanding of cultural business practices in Spanish speaking countries.

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ Advanced Spanish II**CSPN 601**

This course is for students who feel comfortable using Spanish, but who wish to perfect their listening comprehension, oral communication, correctness and spontaneity of expression, sensitivity to language registers as well as the written aspects of the language. Newspaper clippings, magazine articles and videos introduce students to various aspects of the Spanish-speaking world. A novel is studied, and medium-length essays and commentaries improve writing and analytical skills. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

Supplies and materials to be purchased by the student: Additional supplies and materials are required (cost TBA).

39 Hours

Fee: \$520.52

★ Spanish Gram. for Native Speakers II**CSPN 610**

This course, taught in Spanish, is the continuation of SPN 510, intended for native speakers of Spanish wishing to improve their formal knowledge of the written language. Grammar is taught through the four skills of language acquisition. Language practice focuses on spelling, anglicisms, idiomatic expressions, and vocabulary. Weekly readings help students gain a better understanding of the rich diversity of the Hispanic world, particularly their own culture and literary heritage. (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.30

★ Advanced Business Spanish**CSPN 702**

This course is designed to give advanced students a solid foundation in business vocabulary and a concrete background in business and cultural concepts in order to succeed in the Spanish-speaking world. It seeks to develop cross-cultural competence for business purposes in order to apply this knowledge effectively in communicative situations. Students will have already mastered the fundamentals of Spanish grammar and the general vocabulary needed for basic everyday communication. Through the study of realistic situations and specialized vocabulary, students will acquire an in-depth knowledge of the Hispanic business community.

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$520.52

★ **Introduction to Latin American Culture I** **CSPN 704**

This course, offered in Spanish, is designed to introduce students to South American culture. Literary works by authors such as Jorge Luis Borges, Gabriel García Márquez and Luisa Valenzuela will be examined in relation to social and political themes in Latin American society. The study of painting, sculpture, cinema, music and popular culture from various countries will lead to an enhanced awareness of cultural diversity in South America. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$522.64

NEW

★ **The Boom in Latin American Literature** **CSPN 705**

This course is an introduction to Latin American literature and criticism from the 1960s and 1970s. We will study major authors from several Spanish-speaking countries to understand the “boom” not only in terms of the international success of Latin American authors but also as a cultural movement. Major authors to be studied include Julio Cortázar, Carlos Fuentes, Mario Vargas Llosa and Gabriel García Márquez. Students will examine literary works and articles from various sources. (UL)

39 Hours

Fee: \$522.64

NEW

★ **Spanish-English Translation** **CSPN 707**

This course is designed to improve students’ appreciation of cultural differences through Spanish texts. Using translation to contrast linguistic and cultural differences, this course will focus on how Spanish and English reflect different worldviews and will foster a better understanding of cultural differences and similarities. Through the analysis of discourse found in a variety of media, students improve their understanding of cultural differences as expressed through language. (UL)

39 Hours

Fee: \$522.64

★ **Contemporary Spanish Fiction** **CSPN 708**

This course, offered in Spanish, will explore Spanish fiction from the onset of the Civil War to the present. Through the study of short stories, plays and novels by authors such as Federico García Lorca, Juan Marsé and Esther Tusquets, students will develop skills in literary analysis and gain an understanding of modern Spanish literature. Textual analysis, oral participation and composition form an essential part of the course. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$507.79

★ **Spanish of Spain and Latin America** **CSPN 710**

This course, offered in Spanish, will present an in-depth study of the present-day grammatical structure of the Spanish language as well as introducing students to the history of Spanish from its Latin origins to its current use in Spain, Latin America and elsewhere. Students will analyze the language and the cultural context of a variety of texts from Spain and Latin America. The norms and variations of Modern Spanish will be studied. The course will be given in Spanish using multimedia. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$513.09

★ **Introduction to Latin American Culture II** **CSPN 804**

This course is designed to introduce students to the culture of Mexico, Central America and the Spanish-speaking Caribbean. Literary works by authors such as Laura Esquivel, Carlos Fuentes and Nicolas Guillén will be studied in relation to social and political themes in Latin American society. The study of painting, sculpture, cinema, music and popular culture will lead to an enhanced awareness of cultural diversity in the Spanish speaking world. The language of instruction is Spanish. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$522.64

★ **Cultural Context of Writing** **CSPN 810**

Intended for students who need to improve their writing skills in Spanish, this course will study five major modes of writing: description, narration, exposition, argumentation and academic discourse. Students will engage in the in-depth analysis of texts from various sources: Spanish and Latin-American literature, journalistic writing, advertising, scholarly articles, etc. The course is structured in such a way as to help students understand the cultural complexity of the relationship between the writer and the intended reader. The language of instruction is Spanish. (LL) (UL)

Note: All students must take an interview/placement assessment before enrolling in this course.

39 Hours

Fee: \$522.64

Spanish Studies

Related certificate(s): Caribbean Studies

★ **Spanish Caribbean Literature and Culture** **CSPS 502**

This course, offered in English, is intended to introduce students to the Spanish speaking Caribbean. Through the study of literature, painting, and cinema, students will have a broad overview of Hispanic Caribbean cultural traditions. Students will study three principal countries: Cuba, Puerto Rico and the Dominican Republic. Major authors to be studied may include Rosario Ferré, Miguel Piñero, Nicolas Guillen, Aida Cartagena Portalatin, Julia de Burgos, Gertrudis Gomez de Avellaneda and Lydia Cabrera. (UL)

39 Hours

Fee: \$576.75

SPANNING THE GAPS

Spanning the Gaps programs are aimed at giving both high school students and adults an accessible pathway to post-secondary education.

Spanning the Gaps

Academic Preparation

CYSG 110

Students will gain practice writing university-level essays, generate ideas using critical-thinking skills, utilize time management techniques to meet deadlines, and learn to properly tailor learning based on their individual learning styles. This interactive workshop will provide a comprehensive set of skills for success in a post-secondary environment. It is presented in an engaging classroom environment and will provide students with a comprehensive group of skills to become self-directed learners.

27 Hours HST included Fee: \$216.30

NEW

Strategies for Academic Success I

CYSG 121

Strategies for Academic Success I is designed to help participants create healthy habits for university success. Participants will have the opportunity to enhance self-awareness by reflecting on past academic habits; understand intra- and inter-personal skills to improve effectiveness within a team environment; identify their individual learning and working styles to improve overall academic effectiveness individually and in a group; and begin the process of understanding and setting SMART goals.

Note: This offering is part of 'Strategies for Academic Success Series'.

4 Hours HST included Fee: \$40.00

NEW

Strategies for Academic Success II

CYSG 122

Time management is a difficult skill to master in university life. Participants will be introduced to various time management strategies in order to help increase their overall efficiency and motivation, as well as to help balance their academic and personal lives. Participants will also learn to navigate the post-secondary environment through an introduction to on-campus student support resources. Participants will gain skills to develop an individualized academic learning plan that incorporates the use of resources.

Note: This offering is part of 'Strategies for Academic Success Series'.

4 Hours HST included Fee: \$40.00

NEW

Strategies for Academic Success III

CYSG 123

Success in many university courses relies on reading, note-taking, and presentation skills. Participants will learn the difference between active and passive reading, as well as learn effective strategies to enhance their reading time. They will also be introduced to a number of note-taking methods that may be used to improve the quality of class notes. Participants will learn effective presentation delivery techniques and have the opportunity to participate in a simulated group presentation.

Note: This offering is part of 'Strategies for Academic Success Series'.

4 Hours HST included Fee: \$40.00

NEW

Strategies for Academic Success IV

CYSG 124

University can bring types of stress that may be unfamiliar and difficult to navigate. Participants will be able to learn strategies to cope with difficult aspects of being a student including balancing academics with outside life commitments and anxieties about academic skills. They will also learn to define success, set clear goals, and manage expectations in an academic context. Participants will also learn various strategies that will help them to prepare for tests and exams.

Note: This offering is part of 'Strategies for Academic Success Series'.

4 Hours HST included Fee: \$40.00

NEW

Strategies for Academic Success V

CYSG 125

Essay writing is an essential skill in university. Participants will become familiar with particular aspects of the essay-writing process and focus on the development of essay-writing skills. Participants will learn more about essay writing and the significance of the different stages involved. Participants will become familiar with research and referencing resources as well as understand the purpose of thesis statements and essay structure. Strategies and tools for editing and proofreading are also included.

Note: This offering is part of 'Strategies for Academic Success Series'.

8 Hours HST included Fee: \$75.00

SUSTAINABILITY MANAGEMENT

Sustainability is regarded as a global issue that will impact society and the world we live in. These courses provide you with an opportunity to acquire cross-disciplinary knowledge of sustainability-related issues. F

Sustainability Management

Related certificate(s): Energy Management and Innovation, Sustainability Management and Enterprise Process Excellence

🌱 Fundamentals in Sustainability I **CKSS 100**

This course provides conceptual, theoretical, historical, and practical frameworks for understanding how society addresses sustainability issues. Through an international lens, it facilitates the development of systems-thinking skills based on an integrated, multifaceted, and interdisciplinary approach to ethical, economic, political, social, and legal aspects of societal decision-making concerning sustainability issues. Its purpose is to provide an integrated and holistic understanding of the social-economic-environmental context underlying local and global sustainability decision-making in the public, private, and NGO sectors.

39 Hours

Fee: \$789.25

🌱 Fundamentals in Sustainability II **CKSS 101**

Through guest expert lectures, this course will identify and analyze key sustainability challenges that society faces today and might anticipate in the future. The course will explore how decisions made by society and its constituent parts have led to unsustainable activities. These decisions and some of their consequences will be explored in depth to provide students with an understanding of social, economic, and environmental interconnections. The course will also actively consider sustainability solutions to identified challenges.

39 Hours

Fee: \$752.91

🌱 Designing a Sust-Enterprise **CKSS 102**

Prerequisite(s): Department consent

This final course in the certificate is centred on independent learning under direction of a project supervisor. Students will be required to undertake a project, in partnership with an external organization (such as a corporation or business, government body, or NGO partner), to integrate and apply sustainability's 3BL of all of social, economic, and environmental dimensions. Competencies acquired through coursework, experiential learning, professional experience, and personal interest are applied to a selected sustainability issues of either the learner's choosing or through the learner undertaking a sustainability gap-analysis report that follows the Sustainable Development Strategy (SDS) framework as a guide for analysis. The project allows students to propose specific strategies and solutions that incorporate best sustainability practices and better regulatory requirements.

Note: This is a project-based, independent study course.

39 Hours

Fee: \$752.91

🌱 Sustainability Topics and Trends **CKSS 201**

Building on CKSS 100 and CKSS 101, the two Fundamental Courses in Sustainability, this course will explore four key topics in sustainability with a focus on social and economic dimension of sustainability. The topics in the course will change depending on current issues faced by society and availability of subject matter experts. The course will allow students to understand the background to the issue and why society is where it is. Students will explore possible solutions using the sustainability frameworks of earlier courses to frame the discussion.

39 Hours

Fee: \$789.25

🌱 Lean Six Sigma Contin Improvement **CKSS 210**

Lean Six Sigma is an effective strategy for process improvement and problem solving used in an increasing array of business and technical environments. It can be implemented in isolated applications or as an enterprise-wide strategy for managing quality with strict adherence to sustainable business enterprise practices. Sustainable quality leadership is attained when Lean Six Sigma is combined with a Continuous Improvement approach to quality. Applied case studies will be analyzed, including case studies in sustainable product and services R&D, commercialization, and delivery and performance improvement.

39 Hours

Fee: \$752.91

🌱 Lean Six Sigma Sust Bus Enterprise **CKSS 211**

This course introduces the Lean Six Sigma principles that underlay modern continuous improvement approaches and sustainability excellence imperatives for private enterprise, industry, government, and other organizations. Lean Six Sigma principles are applied through case studies to organizations and sectors to demonstrate how to improve quality, productivity, sustainability adherence, customer satisfaction, employee engagement, time-to-market and financial performance. Lean Six Sigma in sustainable business enterprise precepts, methods, and techniques learned focus transformation efforts on efficiency and sustainable growth.

39 Hours

Fee: \$752.91

🌱 Lean Six Sigma Quality Assurance **CKSS 212**

The course provides students with strong proficiencies in Lean Six Sigma Quality Assurances principles and practices so that they may practice decisive solution execution under pressure and be capable of leading effectively in assuring and approving quality of processes, strategies, products, and services in a sustainable manner. Students will apply Lean Six Sigma Quality precepts, methodologies, process mapping, and best practices in order to execute, with confidence, consensus-building and results-based decisioning regardless of the challenges faced

Supplies to be purchased by the student: Minitab software.

39 Hours

Fee: \$789.25

Sustainability Management Fast Track

CKSS 999

This intensive program offers students a fast track to completion of the Certificate in Sustainability Management and Enterprise Process Excellence. With over 12 weeks of intensive, full-time study, participants will complete all four required courses and two preselected elective courses required to earn the certificate.

Note: To gain access to priority enrollment, students should register in the certificate program in advance of the priority enrollment period.

For further information, contact Academic Coordinator Saeed Nejatian at snejatian@ryerson.ca.

234 Hours

Fee: \$4590.14

THEATRE

Courses offered cover topics including business skills for the creative cultural sector, as well as make-up skills and techniques for theatre, film, and photography. Courses have been developed and will be taught by experienced professionals.

Arts and Entertainment Administration

If you work in the cultural sector, these courses can help you develop entrepreneurial skills to support your creative work.

❖ Making a Living in the Arts CDAM 100

For arts managers, potential managers, and individual artists, this foundational course provides an overview of the business skills required throughout the creative chain - creation, production, marketing and promotion, pricing and selling, distribution, and managing finance - in the context of leadership within an environment of changing technology. The course addresses current practice in the for-profit and not-for profit sectors and is suitable for individuals with various levels of experience.

19.5 Hours

Fee: \$313.12

❖ Audience Outreach and Engagement

CDAM 102

Expanding and enriching the audience experience is vital for the ongoing success of all artistic endeavours, from performing arts groups to visual artists. This course helps to develop skills that address the interchange between product and the audience, through marketing, special events, and corporate sponsorship.

19.5 Hours

Fee: \$313.12

❖ Programmatic Mktng for Arts and Ent

CDAM 103

Understanding and researching the components of a marketing strategy is vital to positioning individual art, a creative service, or an organization. This course covers pricing the creative product or service; identifying, reaching, engaging, and retaining an audience; required human and financial resources; and how to evaluate efforts for improvement. The strategies of traditional marketing techniques are examined within this context.

19.5 Hours

Fee: \$313.00

❖ Social Media Mktng Arts and Ent

CDAM 104

This course, for artists of all disciplines, examines strategies and techniques of media and digital technology used for marketing and promotion. Theory and practice are demystified so as to understand the why and the how. Canadian case studies are presented to illustrate successful approaches.

19.5 Hours

Fee: \$328.65

Make-up Techniques

❖ Make-Up Artistry for Film Video and TV

CDTH 431

Prerequisite(s): CDTH 448

This is a professionally oriented course geared to helping you break into the field of make-up artistry. It is designed for those people who are committed to becoming working professional make-up artists and to achieving a level of proficiency sufficient to work in the many areas of the industry. The course covers aging, clowns, facial lifts, wax, latex aging, beards, bald pates, blood and gore, historical make-up, reading and understanding scripts, business for the freelance artist, as well as make-up for film, television and theatre, the structure of hairpieces, and wigs, and hair goods maintenance. This course is ideal for those who wish to enter a professional union, e.g., NABET, IATSE, etc.

Note: Maximum enrollment is 14 students.

Material Fee: A material fee of \$35 is included in the total fee indicated above. For further information, see Material Fees.

Supplies to be purchased by the student: Students must have a basic make-up kit and must purchase supplies.

100 Hours HST included Fee: \$1608.20

❖ Special Effects Make-Up for Stage and Screen

CDTH 435

This course is designed to introduce students to the world of three-dimensional special effects make-up. Some topics covered will be face casting, mould-making, and foam prosthetics, as well as other professional laboratory and make-up techniques.

Note: Maximum enrollment is 12 students.

Supplies to be purchased by the student: Students must have a basic make-up kit and must purchase supplies amounting to about \$130.

100 Hours HST included Fee: \$1627.80

❖ Introduction to Make-Up Techniques for Theatre and Film

CDTH 448

This course provides an introduction to make-up materials, equipment, and techniques; facial anatomy; and foundations. Photographic and wedding make-up applications are studied.

Material Fee: A material fee of \$25 is included in the total fee indicated above. For further information, see Material Fees.

Supplies to be purchased by the student: Students will be required to purchase make-up supplies.

40 Hours HST included Fee: \$839.57

Theatre

❖ Costume Painting and Dyeing

CDTH 460

Introduction to dyeing and fabric painting for the novice individual who wishes to survey and experiment with a multitude of fabric dyeing and painting techniques to develop their own fabric manipulation practice. Historical and theatrical applications of dyes and paints are explored. Topics may include resist dyeing techniques, silk screening, stamping, stenciling, silk painting, marbling, and costume breakdown. Classes begin with a short lecture and demonstration followed by hands-on exercises.

Note: For more information, please see Course Series in Costume Specialties.

Material Fee: A material fee of \$50 is included in the total fee indicated above. For further information, see Material Fees.

19.5 Hours HST included Fee: \$464.17

❖ Costume Specialty Building

CDTH 461

Through historical and theatrical applications, students will explore and experiment with a variety of materials and techniques used in the creation of specialty costumes. Topics may include the techniques and methods used in the application of leather, wire, foam, buckrum, crin/horsehair ribbon, feathers and metallics in the creation of armour, soft sculpture, puppets, masks, millinery and accessories. Classes begin with a short lecture and demonstration followed by hands-on exercises.

Note: For more information, please see Course Series in Costume Specialties.

Material Fee: A material fee of \$50 is included in the total fee indicated above. For further information, see Material Fees.

19.5 Hours HST included Fee: \$464.17

❖ Costume Surface Design

CDTH 462

This is an introduction to the aspects of creating texture and decoration with fabric and trims. Using historical and theatrical methods, students will experiment with creating fabric texture, embellishments and unique yardages. Topics may include the use of dissolvable stabilizers, smocking, slashing, fabric flowers, ribbon work, frogging, appliqué, and incorporating alternative objects into surface design. Classes begin with a short lecture and demonstration followed by hands-on exercises.

Note: For more information, please see Course Series in Costume Specialties.

Material Fee: A material fee of \$50 is included in the total fee indicated above. For further information, see Material Fees.

19.5 Hours HST included Fee: \$464.17

URBAN AND REGIONAL PLANNING

Courses in Urban Planning are designed to prepare students with substantive knowledge about cities and regions, and with thinking and problem-solving skills for those who contribute as leaders in the community and the profession of urban and regional planning.

Planning

Related certificate(s): Community Engagement, Leadership, and Development

★ Selected Topics in Planning

CPLE 745

Prerequisite(s): PLG 420 or in UP002 or UP003

A current topic in the planning profession will constitute the subject of the course. The topic will be selected from issues, regions, or projects in planning in which students require competence.

39 Hours

Fee: \$624.49

☆ Selected Topics in Planning

CPLE 845

Prerequisite(s): PLG 420 or in UP002 or UP003

This one semester course will address current topic relevant to the practice and profession of planning.

Note: Starting from a base of critical thought, this course examines the theory and popular debate about why our climate is changing, then expands to explore how the change is manifested on a global and local scale. Building on the observed change, this course also discusses forecasted environmental effects and explores how, as a society, we can best adapt to and mitigate the change. This course is open to students in either their third or fourth year of a four-year program.

39 Hours

Fee: \$593.72

☆ Conflict Resolution and Dispute Negotiation

CPLE 895

Prerequisite(s): PLG 420 or in UP002 or UP003

Antirequisite(s): CINT 905

Conventional ways of handling public disputes no longer seem to be working. Planners who are involved in building new facilities, dealing with community opposition, developing environmental standards, or allocating limited resources to meet emerging social standards, face stiff opposition no matter where they turn. The result is costly, time-consuming, and erodes public confidence in our basic institutions. This course will use case studies, projects, and participatory techniques to show how public dispute management can lead to consensus building strategies that not only save time and money, but produce broadly acceptable agreements.

39 Hours

Fee: \$589.48

❖ Foundations of Planning

CVUP 100

Prerequisite(s): Department consent

This course will address the following areas: planning concepts; planning techniques; planning theory; policy in the planning realm; and the institutional context of planning. While the course will address the basis of physical design and related planning concepts and techniques, it will also focus on contextual factors impacting on planning practice and the theoretical underpinnings of planning.

75 Hours

Fee: \$1071.96

