

2019-2020 COURSES

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ARTS AND MEDIA

Arts and Entertainment Administration

❖ CDAM 100 Making a Living in the Arts

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.

Note: For more information, please see www.ryerson.ca/ce/aeadmin.

19.5 Hours

Fee: \$365.17

❖ CDAM 102 Audience Outreach and Engagement

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.

Note: For more information, please see www.ryerson.ca/ce/aeadmin.

19.5 Hours

Fee: \$365.17

❖ CDAM 103 Progmmatic Mktng for Arts and Ent

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.

Note: For more information, please see www.ryerson.ca/ce/aeadmin.

19.5 Hours

Fee: \$365.17

❖ CDAM 104 Social Media Mktng Arts and Ent

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.

Note: For more information, please see www.ryerson.ca/ce/aeadmin.

19.5 Hours

Fee: \$365.17

Combined Media

★ CMPC 101 Visual Studies I

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.

39.0 Hours

Fee: \$646.60

★ CMPC 103 Art and the Classical Tradition

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.

39.0 Hours

Fee: \$646.60

★ CMPC 201 Concepts and Theories

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.

39.0 Hours

Fee: \$646.60

★ CMPC 203 Art in the Modern World

Prerequisite: 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.

39.0 Hours

Fee: \$646.60

Digital Entrepreneurship Innovation

★ CEID 100 Digital Skills: Int'l Innovation

This course will introduce students to 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 society, and to demonstrate understanding of how digital media can be integrated into their own projects.

For more information, please visit www.ryerson.ca/digitalskills.

39.0 Hours

Fee:\$844.85

Fashion

🔄 CDFA 104 Fashion Drawing I

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.

39.0 Hours

Fee:\$740.56

🔄 CDFA 110 Fashion Drawing II

Prerequisite: 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.

39.0 Hours

Fee:\$740.56

CDFA 800 Fashion Summer Quick Start

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.

35.0 Hours

Fee: \$865.44

❖ CDFA 840 Start Your Own Fashion Business

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.

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

3.0 Hours

Fee:\$154.90

❖ CDFA 851 Directions in Fashion Journalism

As the publishing industry evolves, blogging and podcasting present new avenues which require different ways of communicating what is au courant 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.

39.0 Hours

Fee:\$702.74

❖ CDFA 853 Fashion Portfolio

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.

7.0 Hours

Fee: \$445.64

❖ CDFA 860 Fashion Head Start

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.

Note: To find out about the Certificate in Fashion Coordination and Styling, visit www.ryerson.ca/ce/fashion.

35.0 Hours

Fee: \$865.44

❖ CDFC 101 Fashion Coordination

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 102 Fashion Styling

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 103 Design Fundamentals in Fashion

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 104 Creating the Image

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 105 Fashion Shows and Special Events

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 106 Fashion, Culture, and Society

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 107 Fashion Buying

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.

39.0 Hours

Fee: \$755.88

❖ CDFC 200 Fashion Photography

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.

39.0 Hours

Fee: \$755.88

CDFC 999 Summer Fashion Intensive

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.

312.0 Hours

Fee: \$6,031.72

☆ CFFD 503 Knitwear Design

Prerequisites: FSN 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.

39.0 Hours

Fee: \$581.93

☆ CFSN 209 Textile Design I

Prerequisite: 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.

39.0 Hours

Fee: \$627.83

☆ CFSN 302 History of Costume I

Prerequisite: FSN 232 or CCMN 201 or CCMN 279 or IRH 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.

39.0 Hours

Fee: \$627.83

★ CFSN 703 Visual Merchandising and Display

Prerequisites: 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.

39.0 Hours

Fee: \$627.83

Film Studies

★ CDMP 109 Business of Film - Producing

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.

39.0 Hours

Fee: \$598.62

★ CDMP 114 Post-Production Sound

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

39.0 Hours

Fee: \$633.62

★ CDMP 120 Film History

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.

39.0 Hours

Fee: \$602.78

★ CDMP 121 Film Theory

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.

39.0 Hours

Fee: \$602.78

★ CDMP 125 Fiction Screenwriting

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.

This course is offered in the Spring/Summer term as part of 'Summer Film School'.

39.0 Hours

Fee:\$630.95

★ CDMP 126 Non-Fiction Screenwriting

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.

39.0 Hours

Fee:\$630.95

★ CDMP 129 Motion Picture Production I

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 taught. Short film projects created by students include film and digital procedures. This course will be valuable for people interested in learning practical filmmaking and basic technology, for teachers, and other professionals who work in or employ others in the field of audio-visual media creation. (Equivalent to MPF 106 and 206.) (Formerly CDMP 12A/B.)

This course is offered in the Spring/Summer term as part of 'Summer Film School'.

78.0 Hours

Fee: \$1,429.12

★ CDMP 130 History of Arts and Scenography

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.)

39.0 Hours

Fee:\$598.62

★ CDMP 209 Business of Film - Development

In this course, students will explore the roles of the executive producer and producer and examine the legal requirements to securing the rights to a property and negotiating the option agreement. Students will conduct the necessary market research and will learn how to create an effective pitch package. The course will review Canadian financing models as well as marketing and distribution plans. This course or one of CDMP 109, CDMP 309, or CDMP 409 is a credit for MPF 301.

39.0 Hours

Fee:\$598.62

★ CDMP 215 Movie Marketing and Distribution

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.

39.0 Hours

Fee:\$598.62

★ CDMP 229 Motion Picture Production II

Prerequisites: (CDMP 129 or CDMP 12A/B or CDMP 12), CDMP 117, and CDMP 118

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.)

This course is offered in the Spring/Summer term as part of 'Summer Film School'.

78.0 Hours

Fee: \$1,429.12

★ CDMP 700 Advanced Screenwriting

Prerequisites: 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.

39.0 Hours

Fee: \$643.48

CDMP 999 Summer Film School

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. Enrolment is limited to 25 students. For course information, contact James Warrack at 416-979-5000, ext. 2237, or jwarrack@ryerson.ca.

390.0 Hours

Fee: \$6,553.23

★ CMPF 107 Film Technology I

This lecture and lab class introduces students to the concepts, tools, applications and foundations of filmmaking, including photographic imaging, exposure, cinematography, lab processes, lighting, analogue film editing, as well as an introduction to basic sound recording and non-linear editing. This course focuses on the visual aspects of silent film production and non-synchronous sound.

39.0 Hours

Fee: \$598.62

★ CMPF 300 Film Technology IV

Prerequisite: CMPF 423

This course prepares students for multi-platform delivery and reception of moving images. Topics include methods of image-capture for online and installation work, including film/video interfaces, new developments in digital systems, and different platforms for film viewing.

Registered certificate program students who do not have the requisites and who wish to take this course should contact Ana Abreu, Program Coordinator, at aabreu@ryerson.ca for more information. A requisite may be waived if the student has specific professional experience.

39.0 Hours

Fee: \$598.62

★ CMPF 301 Business of Film

Prerequisite: MPF 422

This course helps students to become aware of the business aspects of film and video production and includes documentary, commercial and narrative productions. It deals with those areas of pre-production, production and post-production which most involve the producer directly. Promotion, distribution and exhibition of product will be dealt with.

39.0 Hours

Fee: \$598.62

★ CMPF 302 Business of Film II

Prerequisite: CMPF 301

This course introduces students to film and television production in Canada. By focusing on the roles and responsibilities of the producer-developer, students learn organizational, legal, financial, creative and marketing aspects of the industry. Knowledge of funding policies and opportunities, revenue reporting, as well as performance and copyright regulations inform the making of film and television in the Canadian context and are key to preparation for work in the Canadian industry.

39.0 Hours

Fee: \$598.62

★ CMPF 423 Film Technology III

Prerequisite: MPF 207;

Corequisite: MPF422

This course advances students' knowledge of the theoretical and practical aspects of synchronous sound, digital cinematography and non-linear editing. Aspects of sound techniques include: double-system sound recording; on-set production practices; issues in the synchronization of sound and picture; the foley studio, and basic mixing processes for film and television production.

Registered certificate program students who do not have the corequisite and who wish to take this course should contact Ana Abreu, Program Coordinator, at aabreu@ryerson.ca for more information. A requisite may be waived if the student has specific professional experience.

39.0 Hours

Fee: \$598.62

Graphic Communication

★ CGCM 110 Introduction to Graphic Communications

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, premedia, proofing, materials, various printing processes, post-press, health and safety, sustainability, and accessibility considerations. Students learn about the global and Canadian impact of the print industry.

39.0 Hours

Fee: \$662.19

★ CGCM 111 Graphic Communication Technologies

Prerequisites: 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.

39.0 Hours

Fee: \$662.19

★ CGCM 120 Graphic Communications Processes 1

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.

39.0 Hours

Fee: \$702.19

★ CGCM 121 Graphic Communications Processes 2

Prerequisite: 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.

39.0 Hours

Fee: \$702.19

★ CGCM 130 Design and Layout

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.

39.0 Hours

Fee:\$682.19

★ CGCM 210 Consumer Packaging

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.

39.0 Hours

Fee:\$662.19

★ CGCM 720 Magazine Production and Publishing

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.

39.0 Hours

Fee:\$702.19

★ CGCM 740 Accessibility for Graphic Communications

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.

39.0 Hours

Fee:\$662.19

Journalism

⊕ CDJN 112 Magazine and Website Publishing

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.

39.0 Hours

Fee: \$778.69

⊕ CDJN 113 Magazine and Website Editing

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.

39.0 Hours

Fee: \$778.69

⊕ CDJN 119 Magazine Copy Editing

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.

39.0 Hours

Fee: \$795.51

❖ CDJN 450 Copy and Content Editing

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.

39.0 Hours

Fee:\$878.05

❖ CDJN 458 Write Like a Journalist

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.

39.0 Hours

Fee: \$885.62

★ CNNS 101 Introduction to News Studies

Antirequisites: JRN 103, JRN 105

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.

39.0 Hours

Fee: \$643.48

★ CNNS 344 Making a Difference: How Journalism Matters

Prerequisite: CNNS 101;

Antirequisites: JRN 123, NNS 123, JRN 344

This online course will explore vital and nuanced journalistic concepts, expanding understanding of journalism's ethical purposes and key issues in media law. The course will give special attention to journalism's role in representing and informing diverse Canadian communities. Readings, guest appearances, case studies and video clips will help students engage with varying insights and debates among journalism's practitioners, critics and advocates.

39.0 Hours

Fee: \$643.48

★ CNNS 410 Queer Media

Prerequisites: CNNS 101 or (JRN 103 and JRN 105)

This course will explore how sexuality, sexual orientation and gender identity have been portrayed in the media, news and entertainment, both historically as well as in contemporary culture. The reasons and the implications for changes in the depiction of the LGBT community will also be explored. Do the media have the power to change public perception or are the changes in news coverage and the entertainment fields merely a reflection of changing cultural and public attitudes? Do these ever conflict, and if so, why?

39.0 Hours

Fee: \$643.48

★ CNNS 412 Documentary Survey

Prerequisites: CNNS 101;

Antirequisite: JRN 412

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.

39.0 Hours

Fee: \$643.48

★ CNNS 512 Reporting Sports

Prerequisites: CNNS 101;

Antirequisites: JRN 512, RTA 233

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.

39.0 Hours

Fee: \$643.48

Media

★ CRTA 102 Creative Processes

Antirequisites: RTA 107, RTA 108

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).

39.0 Hours

Fee: \$649.62

🌀 CRTA 180 Music and Film

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)

39.0 Hours

Fee: \$649.62

★ CRTA 183 Rhythm, Beat and Groove

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).

39.0 Hours

Fee: \$649.62

★ CRTA 212 Media Writing

Prerequisite: BDC 102/CRTA 102or RTA 107 or RTA 108

Building on RTA 102 (Creative Processes), this courses 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).

39.0 Hours

Fee: \$649.62

★ CRTA 941 Dramatic Writing

Prerequisite: CRTA 212 (formerly BDC 202)

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).

39.0 Hours

Fee: \$649.62

★ CRTA 943 Comedy Writing

Prerequisites: [CRTA 102 (formerly BDC 102) or RTA 107 or RTA 108] and CRTA 212 (formerly BDC 202)

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).

39.0 Hours

Fee: \$649.62

★ CRTA 945 Writing for Factual and Reality Programs

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).

39.0 Hours

Fee: \$649.62

Media Studies

★ CFPN 323 Sound Design for Digital Media I

This course builds a foundation in sound theory and audio technology while focusing on their applications within visual media. Students learn concepts relating to audio production and post-production, and through applied projects discover how to edit, augment, and manipulate sound to support intended meaning and narrative. The exploration of sound-image relationships is the basis for learning established practices and tools to bridge artistic intention and final outcome.

39.0 Hours

Fee: \$634.09

★ CFPN 501 Scenography I: Art Direction

This studio course addresses the visual world of film, video, immersive events, and staged/directorial photography by retrofitting locations to evoke fictional space. Script adaptations and analysis, character definition, set geography, visual and technical research, swatched palettes, technical drawing, and maquettes form the basis of project proposals that may complement concurrent production courses/thesis projects. Resource analysis, accounting, and time management as determining factors in design is emphasized, as well as key collaborative structures.

39.0 Hours

Fee: \$634.09

★ CFPN 502 Directing Screen Performance - Basic Principles

This course is based on the premise that the only way to learn how to direct actors is to learn about acting. Students participate in workshop 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.

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

39.0 Hours

Fee: \$634.09

★ CFPN 531 Cinematography and Lighting Design I

Prerequisites: CMPF 423

This studio course is an exploration of cinematography, with an emphasis on lighting as an essential component of visual story-telling. Working in a workshop environment, students use contemporary lighting and camera techniques to create distinct genres, moods, and time of day in order to support theme, story, and character.

Registered certificate program students who do not have the prerequisite and who wish to take this course should contact James Warrack, Academic Coordinator, at jwarrack@ryerson.ca for more information. A prerequisite may be waived if the student has specific professional experience. This course is offered in the Spring/Summer term as part of 'Summer Film School' (CDMP 999).

39.0 Hours

Fee: \$634.09

★ CFPN 532 Advanced Studio Lighting

Prerequisite: MPS 407

This is a course in studio lighting for photographers. Through practical studio projects within a workshop environment, students are exposed to advanced ideas about light and lighting in relation to a variety of subjects and techniques. The course is designed to help students expand and deepen their technical, conceptual, and aesthetic insight while working with light through creative projects.

Note: Maximum enrolment is 15 students. 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. It is recommended that CDFP 389 and CDFP 390 be completed before enrolling in this course. To find out more about your instructor, see the photography instructor biographies. Supplies to be purchased by the student: A list of supplies and materials required will be given to students after the first class. Students should have access to a digital flash meter.

39.0 Hours

Fee: \$634.09

★ CFPN 533 Sound Design for Visual Media II

Prerequisite: CFPN 323

This course applies vocabulary and practices to further use sound as both a professional tool and a creative medium. With an emphasis on practices within the audio post-production industry, students will study the aesthetics of sound design while learning the techniques used to achieve those artistic intentions. Applied projects are used to practice sound design as well as methods of restoration, sound generation, and mixing for various media.

39.0 Hours

Fee: \$634.09

★ CFPN 534 Graphic Design

This is a course 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.

39.0 Hours

Fee: \$634.09

★ CFPN 535 Interaction Design

From an applied design perspective, this course allows students to explore the new possibilities and challenges for visual and virtual media. Through the construction of interactive media objects, students explore creative applications of communication models and paradigms, including the design implications of alternative modalities and practices with the changing cultures of presentation-reception.

39.0 Hours

Fee: \$634.09

★ CFPN 536 Media Business Practices

This course introduces general business practices including marketing, finance, accounting, statutes, and regulations, particularly applicable to the successful operation of small media businesses. The emphasis is on identifying career goals and outlining the experiences required to attain the profession students seek. Students explore methods of marketing and self-promotional strategies practiced by professionals in the industry. Assignments provide the practical skills and necessary resources for the students to use in media businesses.

To find out more about your instructor, see the Photography instructor biographies.

39.0 Hours

Fee: \$634.09

★ CFPN 537 Immersive Imaging

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.

39.0 Hours

Fee: \$634.09

★ CFPN 539 The Human Figure

This course is an investigation of uses of the human figure in traditional fine arts and contemporary media. This studio course will explore the representation of the figure in two- and three-dimensional design contexts as well as in time-based and digital forms. Participants will have the opportunity to combine studio work with theoretical and historical studies.

It is recommended that CDFP 329, DFP 384, or MPS 206 be completed before enrolling in this course. To find out more about your instructor, see the Photography instructor biographies.

39.0 Hours

Fee: \$634.09

★ CFPN 541 Digital Animation Concepts

This course introduces 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. Modelling and animation topics covered include perspective, composition, movement, rhythm, timing, and imaging in a three-dimensional space. Particular attention is paid to the aesthetics and other special characteristics of the delivery medium.

39.0 Hours

Fee: \$634.09

★ CFPN 542 Design for Mobile Devices

This course introduces students to the fundamental concepts, techniques, and strategies of mobile app development for the purposes of producing digital artwork and creative applications. Assignments and in-class exercises work to expand student knowledge related to app-based multimedia, interaction, geo-location, sensors, APIs, and online distribution. Through readings and lectures, students also become familiar with the critical, theoretical and historical debates surrounding software and mobile-based artwork.

39.0 Hours

Fee: \$634.09

★ CFPN 547 Co-Operative Internship

Antirequisite: FCD 810

This course gives students the opportunity to work in professional production settings which will provide them with experience in their chosen field. Internship contacts are the responsibility of the student. All internships are subject to departmental approval in advance. This course is graded on a pass/fail basis.

39.0 Hours

Fee: \$634.09

★ CFPN 601 Scenography II - Production Design

This studio course models the development of production concepts from script analysis, identifying time-space requirements and research methodologies, to visual proposals for the material culture of constructed realities, whether live/immersive events, film, video, or staged/directorial photography. Students create a full portfolio presentation: the scenographic concept, including character design, performance space, and all necessary properties, using renderings, technical drawing, maquettes, and storyboards. The portfolio will stress effective communication, combining aesthetic expression, spatial dexterity, and narrative logic.

39.0 Hours

Fee: \$634.09

★ CFPN 631 Cinematography and Lighting Design II

Prerequisite: CFPN 531

This advanced studio course builds on the concepts explored in FPN 531. Current state of the art practices in cinematography are explored including digital imaging, precise exposure control, post-colour correction, new lighting technologies, and green screen compositing.

39.0 Hours

Fee: \$634.09

★ CNPF 566 History of Animation

Prerequisite: CNPF 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. 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.

39.0 Hours

Fee: \$586.10

★ CNPF 574 Aboriginal Visual Culture in Canada

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.

39.0 Hours

Fee: \$586.10

New Media

CDNM 999 Digital Art Production Intensive

The Digital Art Production Intensive allows participants to earn the six credits required to complete the Certificate in Digital Art Production in an intensive 14-week program. Courses cover building apps, graphic design, design for interaction, Maya software, art history, and visual storytelling and prepares students for careers in interaction design, graphic design, mobile application development, animation, and artistic production.

234.0 Hours

Fee: \$3829.56

Photography

⊕ CDFP 312 Art Direction for Ad Agencies

The intention of this course would be to introduce the concept of sequencing, editing and movement in a photographic series. Students will explore the creation and development of narrative through a variety of assignments beginning from a small sequence of photographs, then photos with text, then the introduction of audio with photos in a slide show and finally the introduction of video, resulting in deeper comprehension of narrative flow.

To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$360.20

❖ CDFP 318 Photographing in the Field

This is a practical shooting course. In the first session we cover the use of the camera. Then we shoot - answering questions and giving advice along the way. In the last session especially, the students will have an opportunity to present their work to the group. Students get to practice showing their work and learning how to look at other people's work creatively and positively.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

12.0 Hours

Fee: \$261.55

❖ CDFP 319 Documentary Project

The intention of this workshop is to introduce participants to documentary photography by having them produce a documentary project. More advanced students can continue their projects, already begun, with guidance. Students will photograph and share work - in-progress weekly, developing skills of storytelling and editing within a documentary context. We will look at contemporary modes of presentation. The final edited piece will be presented in slide show or print form at the last class.

You must own or have access to a digital camera and Adobe Lightroom for this course. This course is suitable for beginner photographers and not recommended for users of mobile devices. To find out more about your instructor, refer to the Instructor Profile Directory.

18.0 Hours

Fee: \$392.35

★ CDFP 320 Analog Photography

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)

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. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$646.93

★ CDFP 322 Photography for Ad Agencies

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)

This course is suitable for both digital and traditional photographers. Supplies to be purchased by the student: Layout pad, felt pen markers, acetate and overlay materials, drafting tools, artboard, etc. Cost minimum \$85-\$100. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$600.70

★ CDFP 328 Photography Production I

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.)

You must own or have access to an interchangeable lens digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$643.48

★ CDFP 329 Photography Production II

Prerequisite: 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.)

You must own or have access to an interchangeable lens digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$643.48

★ CDFP 332 Digital Printing

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).

To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$702.94

★ CDFP 333 Photography and Digital Imaging

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.)

You must own or have access to an interchangeable lens digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$659.12

⊕ CDFP 353 From Still to Motion

The intention of this course is to introduce the concept of sequencing, editing, and movement in a photographic series. Students will explore the creation and development of narrative through a variety of assignments beginning from a small sequence of photographs, then photos with text, then the introduction of audio with photos in a slide show, and finally the introduction of video, resulting in deeper comprehension of narrative flow.

You must own or have access to an interchangeable lens digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$748.20

❖ CDFP 355 Digital B&W Photography

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.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

12.0 Hours

Fee: \$261.55

★ CDFP 358 Photography and the Screen

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.)

To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$659.12

❖ CDFP 367 Photoshop for Photographers

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.

Students must have a working knowledge of Photoshop CS3 or later versions. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$791.01

★ CDFP 381 Advanced Fashion Photography

Prerequisites: 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).

A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisite 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. 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. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$792.68

★ CDFP 382 Advanced Portrait Photography

Prerequisites: 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).

A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Dennis Miles, at dmiles@ryerson.ca for more information. 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. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$681.04

❖ CDFP 388 Pinhole Digital Images

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!

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

12.0 Hours

Fee: \$261.55

★ CDFP 389 Studio Lighting I

Prerequisites: 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)

A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisite and who wish to take this course must contact the Academic Coordinator, Dennis Miles, at dmiles@ryerson.ca for more information. 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). To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$589.22

★ CDFP 390 Studio Lighting II

Prerequisite: 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 Commercial Photography II)

A prerequisite may be waived if the student has specific professional experience. Registered certificate program students who do not have the prerequisite 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. 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). To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$611.84

★ CDFP 391 History of Photography I

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.)

To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$586.10

★ CDFP 392 Documentary Photography

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).

Supplies to be purchased by the student: Suitable camera (any format), or access to one, and printing supplies. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$664.22

⊗ CDFP 403 Creative Wedding Photography

Prerequisite: 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.

To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$865.18

⊗ CDFP 404 Magazine/Editorial Photography

Prerequisites: CDFP 329

The successful magazine assignment requires research, human interest, and proficient execution. This course will concentrate on preparing and presenting the successful "People Magazine/National Geographic" style photo-story. Just "being there" photos are no longer an option for today's sophisticated magazines and their readers. Images and word descriptions of people, places, and/or events must be compelling, communicative, articulate, and artistic. Additional techniques will include people and candid photo skills, enhanced composition, and sales promotion to world-wide magazines.

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. Students must have an interchangeable lens digital camera. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$865.18

⊗ CDFP 405 Architectural Photography

Prerequisite: 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.

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. Students must have an interchangeable lens digital camera. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$865.18

⊗ CDFP 414 Traditional Photography

Learn how to process silver film and make prints in a darkroom. This course offers an introduction to the basics of black and white silver-based photography with time given to learning the basic technical aspects of photography: precise exposure, processing of film, and printing of negatives are the core skills learned.

To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$347.21

❖ CDFP 418 Landscape Photography

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.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$392.35

❖ CDFP 419 Exploring Toronto Landscapes

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.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$392.35

❖ CDFP 420 Making a Photographic Book

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.

To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$392.35

❖ CDFP 421 The Interpretive Portrait

Photographic portraits are arguably the most meaningful and compelling images we can create. They speak volumes about who we are, who we think we are, and how we want to be seen. This course studies traditional, conceptual and experimental portraiture. Through assigned projects, critiques, and different working methods, a range of ideas, techniques, and styles are explored to help the student engage with and represent subjects in meaningful ways.

You must own or have access to a digital camera and Adobe Lightroom for this course. This course is designed for intermediate to advanced photographers. Instructor: Joël B nard. To find out more about your instructor, refer to the Instructor Profile Directory.

15.0 Hours

Fee: \$326.95

❖ CDFP 424 Introduction to Lightroom

If you're relatively new to Adobe Photoshop Lightroom, and want to be sure that you're getting it right, this is the course for you! We'll cover all the basics of the amazing Lightroom workflow, from importing and organizing your photographs, through developing and outputting your files. Most importantly, you'll gain an understanding of exactly how Lightroom works and what it can do to streamline your workflow.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

12.0 Hours

Fee: \$261.55

❖ CDFP 425 Lightroom Advanced

This course is for photographers who are already familiar with Adobe Lightroom, but would like to be sure they are up to date on the latest features, and are getting the most from this amazing program. Learn all the various aspects of the Lightroom workflow, including the Adobe Lightroom Mobile App, new sharing features, advanced tonal controls, and file management. This course will give you a comprehensive understanding of all the features of Adobe Lightroom.

You must own or have access to a digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$392.35

❖ CDFP 432 Digital Printing Workshop

Working with digital applications, learn how to achieve and evaluate excellence in print using your printer or pro labs. Discussions include: digital image preparation and enhancement for print, calibration of all devices including smart phone, camera, monitor and printer, techniques to optimize colour, B&W and toned prints, soft proofing, colour management, selecting the right paper and creation of fine prints for display. This course is for serious digital photographers who want to make exhibition quality prints.

To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$347.21

❖ CDFP 905 Contemporary Photographic Art

Through lecture presentations, gallery visits, artists' talks, readings, discussions, and assignments, the history, theory, and production of photography as an art form will be explored. The major approaches to 20th and 21st century photographic art, and their corresponding theoretical bases and cultural contexts, will be examined. Throughout the course, students will develop their own photographic art projects with the goal of producing coherent bodies of work for exhibition.

To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$748.20

❖ CDFP 907 Using a 4X5 View Camera

This workshop format course is for advanced students who wish to gain knowledge on how to handle a 4x5 view camera, how to process sheet film, and make prints using archival methods.

To find out more about your instructor, refer to the Instructor Profile Directory.

19.5 Hours

Fee: \$347.21

❖ CDFP 908 Using Your Digital Camera

Improve your overall photography skills and get the most from your digital camera through a combination of hands-on activities, discussions, lectures, and assignments. Topics include a review of basic photographic techniques, a comprehensive study of the key settings on most digital cameras, and essential image file management and editing using Adobe Lightroom. If you don't have a DSLR, mirrorless or compact camera with manual controls, buying tips will be provided during the first class.

Supplies to be purchased by the student: Approximately \$25 for digital printing. To find out more about your instructor, refer to the Instructor Profile Directory.

18.0 Hours

Fee: \$392.35

❖ CDFP 915 The Travelling Camera

This workshop is for you if you take photographs (film-based or digital) when you travel - whether for keeping personal memories, or for editorial or commercial publication. With the instructor's experienced guidance, you will be able to experiment with your travelling camera in and around Toronto and will have opportunities to discuss problems and issues when your work is viewed in class. You will learn what to include in your kit and what to leave behind, taking into account your individual travel plans and picture-taking goals. The workshop emphasizes taking pictures and learning techniques that will give you more confidence when you are photographing in unfamiliar conditions or unusual situations.

To find out more about your instructor, refer to the Instructor Profile Directory.

18.0 Hours

Fee: \$392.35

❖ CDFP 918 Photojournalism

This course provides an overview of the field of photojournalism. Through lectures and presentations by Ryerson faculty and industry professionals, students will be introduced to the history of photojournalism, its genres, technologies, and techniques. Practical and theoretical concerns such as ethics and legal issues will be discussed. Assignments throughout the course will give students hands-on practice in different photojournalistic genres.

You must own or have access to an interchangeable lens digital camera and Adobe Lightroom for this course. To find out more about your instructor, refer to the Instructor Profile Directory.

39.0 Hours

Fee: \$748.20

❖ CDFP 929 The Business of Photography

This workshop prepares emerging photographers with their portfolios (their most important asset), websites, business cards, promotions, quoting and negotiating contracts and usages, professional fees, invoicing, business practices and ethics, copyright, model and property releases. Insights into dealing with advertising agencies, art directors, art buyers, magazines, editors, model/talent agencies, casting, and hiring talent, such as makeup artists, fashion stylists, prop people, hair stylists, location scouts, photo assistants, and the rest of your "crew".

To find out more about your instructor, refer to the Instructor Profile Directory.

24.0 Hours

Fee: \$635.67

❖ CDFP 945 Creative Child and Animal Portraits

This workshop is designed for anyone that loves photography and wants to learn to capture creative portraits of children and animals; whether for keeping personal memories, or for professional commercial publication. There will be a review of basic photography fundamentals, both technical theory and practice. With the instructor's experienced guidance, you will have weekly assignments and will have opportunities to discuss problems and issues during class reviews.

To find out more about your instructor, refer to the Instructor Profile Directory.

18.0 Hours

Fee: \$392.35

CDFP 999 Photography Studies Intensive

Students now have the opportunity to obtain the Certificate in Photography Studies over 12 intensive, 5-day weeks. This unique fast-track program covers all required production, technology, and studio courses.

312.0 Hours

Fee: \$5,078.50

Public Relations

★ CDPR 100 Public Relations Principles

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).

39.0 Hours

Fee:\$674.95

✦ CDPR 102 Business Presentations

Prerequisites: 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.

Students with five years of professional PR experience may apply to the Academic Coordinator, Nick Douloff, at ndouloff@ryerson.ca for consideration to enrol in this course without the required prerequisites.

19.5 Hours

Fee:\$489.36

✦ CDPR 103 Advanced PR Writing

Prerequisite: CDPR 111 and (CDPR 100 or CDPR 201)

As public relations (PR) practitioners advance in their careers, there are more opportunities to prepare social media and web-related reports, plans, 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.

Students with five years of professional PR experience may apply to the Academic Coordinator, Nick Douloff, at ndouloff@ryerson.ca for consideration to enrol in this course without the required prerequisites.

19.5 Hours

Fee:\$489.36

✦ CDPR 104 Planning Programming and Budgeting

Prerequisite: 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.

39.0 Hours

Fee:\$837.68

✦ CDPR 105 Research and Program Evaluation

Prerequisite: 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.

39.0 Hours

Fee:\$837.68

✦ CDPR 106 Media Relations

Prerequisite: 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.

39.0 Hours

Fee:\$837.68

✦ CDPR 107 Public Relations Project

Department Consent Required

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.

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.

39.0 Hours

Fee:\$837.68

✦ CDPR 108 Social Media in Public Relations

Prerequisite: 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.

39.0 Hours

Fee:\$837.68

✦ CDPR 110 Reputation Management

Prerequisite: 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:\$489.36

✦ CDPR 111 Writing for Public Relations

Prerequisite: 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.

39.0 Hours

Fee: \$837.68

✦ CDPR 113 Internal Communications Management

Prerequisite: 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.

39.0 Hours

Fee: \$837.68

✦ CDPR 116 Public Relations Ethics

This course provides an opportunity for students to examine, evaluate, and apply a variety of ethical decision-making models for public relations practice. Working both individually and in small groups, students will review ethical frameworks and public relations societies standards through the investigation of public relations cases which raise ethical issues. Emphasis will be placed on the application of ethics in the practice of public relations.

19.5 Hours

Fee: \$489.36

✦ CDPR 117 Crisis Communication

Prerequisite: CDPR 100

This course will examine best-practices in crisis communication, a fundamental and increasingly important part of public relations practice that involves rapid execution and the potential use of a wide range of public relations tactics to protect and sustain an organization's reputation and its ability to function. Pragmatic, workable strategies will provide students with the background they need to recognize a crisis situation, select the correct strategies and execute them using the appropriate teams and tactics.

19.5 Hours

Fee: \$489.36

CDPR 999 Public Relations Intensive

This unique fast-track program covers all five required public relations courses, plus three electives.

312.0 Hours

Fee: \$6,538.71

Publishing

✦ CDPB 100 Publishing Overview: Trade

This course provides an overview of trade publishing in Canada: the historical context; the players - publishers, publishing associations, the distribution network, and bookstores; the processes - acquisition, editing, production, marketing, and sales; the brave new world of publishing - the ebook explosion, online marketing, the self-publishing revolution; and the challenges of both traditional and digital, faced by publishers today.

This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

✦ CDPB 101 The Business of Book Publishing

Prerequisite: 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.

39.0 Hours

Fee: \$829.14

✦ CDPB 102 Copy and Stylistic Editing I

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.

To enter CDPB 102, ideally you will score 80 or higher on this Diagnostic Grammar Test (Word document). 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 and Stylistic Editing I, please review grammar basics (see Practical Grammar by Maxine Ruvinsky). Under 70: we highly recommend that you take Practical Grammar and Punctuation (CDPB 312) before tackling CDPB 102. Note: This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

✪ CDPB 103 Production for Books, Journals, and Reports

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.

Students are strongly recommended to take CDPB 100 or CDPB 200 before taking this course. This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

✪ CDPB 104 Introduction to Book Design

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.

All course assignments will be completed in Adobe InDesign. It is strongly recommended that students complete CDPB 212 or have equivalent Adobe Suite software (Illustrator, InDesign, and Photoshop) experience prior to taking this course.

39.0 Hours

Fee: \$829.14

✪ CDPB 105 Sales and Marketing for Book Publishers

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.

39.0 Hours

Fee: \$829.14

✪ CDPB 110 Publicity for Book Publishers

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.

This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

✪ CDPB 200 Publishing Overview: Education

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.

This course is offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

✪ CDPB 201 Literary Rights Management

Prerequisite: 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.

Students with equivalent experience may be admitted by the permission of the coordinators.

39.0 Hours

Fee: \$789.51

✪ CDPB 202 Substantive and Stylistic Editing

Prerequisite: 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.

Students with experience in editing may be admitted by permission of the coordinators.

39.0 Hours

Fee: \$829.14

🌀 CDPB 212 Visual Skills for Publishing

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.

This course is offered in a Mac computer lab on campus or online. Although instruction in Adobe Illustrator, InDesign, and Photoshop will be provided, to complete the work successfully students who are completely unfamiliar with these programs must be prepared to spend time outside class mastering basic techniques through online tutorials. This course is also offered in the Spring/Summer term as part of 'Publishing Intensive' (CDPB 999).

39.0 Hours

Fee: \$829.14

🌀 CDPB 222 Copy and Stylistic Editing II

Prerequisite: CDPB 102

This advanced copy editing course is designed for students who have completed CDPB 102 and for editors who want to enhance their skills, particularly in stylistic editing. Specific topics include adjusting reading level to suit audience and medium (print versus online, for example); editing captions and other visual material; preparing back matter; editing indexes; and working with specific types of texts, such as illustrated books, fiction, and government, corporate, and legal documents.

39.0 Hours

Fee: \$829.14

🌀 CDPB 300 Children's Classics in the 21st C

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

Fee: \$466.06

🌀 CDPB 301 Publishing for Children

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.

This course will run during the Fall break.

19.5 Hours

Fee: \$466.06

🌀 CDPB 302 Government Reports

Prerequisite: 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.

Students with experience in editing may be admitted by permission of the coordinators.

19.5 Hours

Fee: \$443.86

🌀 CDPB 304 Scholarly and Reference Publishing

Prerequisite: 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).

Students with experience in editing may be admitted by permission of the coordinators. This course will run during the Winter break.

19.5 Hours

Fee: \$443.86

🌀 CDPB 306 Trade Books: Fiction

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: \$466.06

🌀 CDPB 309 Editing Books for Children and Teens

Prerequisites: 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.

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: \$466.06

🌀 CDPB 310 Proofreading for Books, Journals, and Re-

ports

Prerequisite: 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.

Students with experience in copy editing may be admitted by permission of the coordinators. This course will run during the Winter break.

19.5 Hours

Fee: \$466.06

✧ CDPB 311 Indexing for Books, Journals, and Reports

Prerequisite: 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.

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. This course will run during the Fall and Winter breaks.

19.5 Hours

Fee: \$443.86

✧ CDPB 312 Practical Grammar and Punctuation

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.

39.0 Hours

Fee: \$829.14

✧ CDPB 313 Mktg Books for Children and Teens

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

Fee: \$466.06

✧ CDPB 314 Legal Publishing

Prerequisite: CDPB 102

This course provides a framework for anyone considering a career in legal publishing. Students will learn how legal professionals are trained, the publications they use, and the publishers that deliver them. Once legal professionals are in practice, legal publishers continue to provide products and services, ranging from print and e-books to online databases. A focus will be put on the impact of technological innovation and how the industry is adapting to find growth opportunities.

Students who do not have the prerequisite and who wish to take this course can apply for Department Consent.

19.5 Hours

Fee: \$466.06

NEW!

✧ CDPB 315 Editing Recipes and Cookbooks

This course examines the principles of cookbook editing, with a focus on editing recipes to ensure successful results. It explores the parts of a cookbook, as well as recipe structure, terminology, ingredient lists, methods, headnotes, yields, and special features. Authorial voice and editing for the readership are also addressed. In addition, students will learn strategies for creating effective editorial correspondence and a record of style decisions to ensure coherency throughout.

19.5 Hours

Fee: \$466.06

✧ CDPB 803 Digital Publishing and Production

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.

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.

39.0 Hours

Fee: \$829.14

CDPB 999 Publishing Intensive

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.

Enrolment is limited to 24 students. For further information about the program, contact the Academic Coordinators, Kelvin Kong and Meg Taylor, at publish@ryerson.ca.

234.0 Hours

Fee: \$4,974.84

Theatre

❖ CDTH 431 Make-Up Artistry for Film Video and TV

Prerequisite: 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.

Maximum enrolment is 14 students. Supplies to be purchased by the student: Students must have a basic make-up kit and must purchase supplies

100.0 Hours

Fee: \$1,867.16

❖ CDTH 435 Special Effects Make-Up for Stage and Screen

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.

Maximum enrolment 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.

100.0 Hours

Fee: \$1,895.85

❖ CDTH 448 Introduction to Make-Up Techniques for Theatre and Film

This course provides an introduction to make-up materials, equipment, and techniques; facial anatomy; and foundations. Photographic and wedding make-up applications are studied.

Students will be required to purchase make-up supplies.

40.0 Hours

Fee: \$972.43

❖ CDTH 460 Costume Painting and Dyeing

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.

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

Fee: \$533.01

Creative Writing

❖ CWWR 298 Writing for The Children's Market

This lively workshop is jam-packed with concrete advice, gossip about the industry, and anecdotal information. We move from picture book to young adult novel, non-fiction to science fiction, with many stops along the way. The works of well-known Canadian authors are studied to deconstruct the writer's craft, and each student is encouraged to read aloud their own works in progress. By the end of the session, you will have the tools to tackle your children's book and a thorough understanding of the wonderful world of children's lit. Beginning writers welcome.

To find out more about your instructor, see the Writing Workshop Instructor Biographies.

24.0 Hours

Fee: \$514.12

❖ CWWR 305 Beyond Writing Romance Novels

Writing commercial fiction for women doesn't mean writing a cliché romance novel. Thanks to novelists like Diana Gabaldon, Janet Evanovich, and Helen Fielding, modern romantic fiction has expanded to include chick lit, mystery, suspense, comedy, family sagas, and more. If you're interested in writing commercial fiction for women, this course will help you understand where you want to go within the genre and how to get there. Using building blocks of fiction (characterization, view point, dialogue, character arc, conflict, etc.), you'll learn how to develop a story that will grab an editor's attention and hold on until the happy ending. Beginning writers welcome.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

24.0 Hours

Fee: \$514.12

❖ CWWR 336 True to Life: Writing Your Own Story

Adventure, turbulence, joy: we all contain a universe of stories. Is it time for you to get started, or restarted, in putting your personal narratives on paper? This relaxed, supportive workshop will help you find the tales you want to tell and the craft and technique to make them compelling to read, whether as memoir, personal essay, or a beginning exploration. Each week students are given a choice of topics and asked to bring in a short piece of new writing. The instructor provides encouragement, structure, and practical feedback to help students discover and hone their unique voices. Learn how to dig deep and stay on track; how to cut, sharpen and polish; and where to send the work you want to share with the world.

To find out more about your instructor, see the Writing Workshop Instructor Biographies. This course will run during the Fall and Winter breaks.

25.0 Hours

Fee: \$514.12

❖ CWWR 369 Writers and the New Media

This hands-on course is for writers who want to create and maintain a website featuring their own work. You will learn weblog software, web authoring software (such as Dreamweaver), design a site made up of several pages, get a domain name and server, and post your site to the web. There will be time during class to work on your webpages. We will examine usability and design issues, web strategy, and web presence. Homework will include bringing in content for your site such as your bio, written material, photos, and links. The goal of this course is to have a website completed and online by the end of the course.

To find out more about your instructor, see the Writing Workshop Instructor Biographies. Students are encouraged to purchase a web host provider for their website: costs are approx. \$100 for one year.

24.0 Hours

Fee: \$514.12

❖ CWWR 410 Short Fiction Writing - Level I

Do you want to write a story, but have no idea how to start? Do you need encouragement? A firmer grasp on basic techniques? This is an introductory workshop designed to help you find your voice and your nerve. In an atmosphere of good humour and mutual respect, participants will write and read aloud their own work. The instructor will emphasize point-of-view, plotting, dialogue, and character development, always with an eye to releasing the writer within you.

To find out more about your instructor, see the Writing Workshop Instructor Biographies.

25.0 Hours

Fee: \$514.12

❖ CWWR 411 Short Fiction Writing - Level II

In this intermediate workshop, the instructor leads frank but supportive discussions about stories written by class participants and distributed ahead of time. Various elements of effective writing are examined, such as creating character, writing dialogue, using the rhythms of spoken language, managing plot, controlling point of view, and writing technical or historical passages. At least one class is devoted to the business of publishing fiction.

To find out more about your instructor, see the Writing Workshop Instructor Biographies. This course will run during the Fall and Winter breaks.

25.0 Hours

Fee: \$514.12

❖ CWWR 420 Novel Writing - Level I

"Don't tell me the moon is shining; show me the glint of light on broken glass." -Anton Chekhov The course includes thoughtful discussion of the elements of novel writing: inspiration and the sustaining of ideas, plotting, setting, character, and point of view. Students will receive feedback on their work from both the class and the teacher. Each class will be structured around writing exercises to build practical skills, a discussion of student manuscripts, as well as a lesson on important facets of narrative technique. Students will learn how to build a novel narrative (a novel outline) and how to write scenically (one strong chapter). Beginning writers welcome.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

25.0 Hours

Fee: \$514.12

❖ CWWR 421 Novel Writing - Level II

This is an intermediate-level course for those who are writing regularly and have already begun a novel, and who value giving and getting regular feedback on their work. Participants will have the chance to present up to 50 pages to the group for discussion and should have some of this draft material ready before the course begins. Using students' own work and in-class exercises when appropriate, we will address such topics as plot, pacing, characterization, point-of-view, and getting published. A continuation of Novel Writing - Level I.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

25.0 Hours

Fee: \$514.12

❖ CWWR 425 Short Fiction and Novel Writing - Level III

The focus of this workshop will be rewriting; learning to look at a manuscript critically, with an eye toward developing the story or novel's potential. Participants will present at least three chapters or stories from a work-in-progress for discussion and evaluation. Objectives will include strengthening structure, narrative drive, deepening characterization, trimming exposition, and intensifying scenes. Participants will be encouraged to experiment, to make mistakes, to scratch out, and, if necessary, to start over. Rewriting is often perceived as difficult, but anything can be changed, shaped, and reshaped. This workshop will communicate to its participants that there is no fear in rewriting, only promise.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

25.0 Hours

Fee: \$514.12

❖ CWWR 446 Writing Television Situation Comedy

This course teaches the craft of writing for today's television situation comedies. Scripts of classic and current shows are analyzed for form and style, but the primary goal is for each student to complete an original script for an existing show. He or she will participate in the entire process, beginning with the story pitch, on to the outline and through the various stages of writing and rewriting, ending with the final round-table polish. This project-oriented course gives the student a sense of the TV sitcom workplace. Beginning writers welcome.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

24.0 Hours

Fee: \$514.12

❖ CWWR 514 Works in Progress: Writing Workshop

This workshop is for writers intending to complete a full-length work - novel, short story collection, screenplay, stage play, or memoir - with the emphasis on 'story.' Over the term, writers will have the opportunity to submit their work to the class for evaluation. Focusing on structure, narrative drive, characterization, syntax, and editing, the group discussions are intended to spark insight into the work-in-progress. In addition, the writer's life will be examined to provide practical advice on publishing, agents, and earning a living as a writer.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

30.0 Hours

Fee: \$556.31

❖ CWWR 952 Creative Travel Writing

"What am I doing here?" was the late travel writer Bruce Chatwin's guiding question. Creative travel writing, as practised by such noted writers as Bill Bryson, Mary Morris, and Paul Theroux, is more than a catalogue of places visited, buses missed, and cathedrals toured. It is the story of the author's relationship to place; it is both outer and inner journey. In this workshop you will be taken through exercises designed to trigger memory, sharpen your powers of observation, and create travel stories and articles using techniques borrowed from the craft of fiction: characterization, description, dialogue, etc. Beginning writers are welcome.

To find out more about your instructor, see the Writing Workshop Instructor Biographies

25.0 Hours

Fee: \$514.12

Inclusive Media

NEW!

❖ CDIM 100 Inclusive Media and Regulations

This course focuses on inclusive design, CC and AD process and technologies, state of art in research, and industry requirements. Students will be able to identify and describe relevant legislation and regulations that apply to CC and AD, apply them to a variety of media venues, and understand how they are implemented and used in industry settings. Finally, they will be able to identify gaps and issues in the current landscape of standards and research.

8.0 Hours

Fee: \$150.48

NEW!

❖ CDIM 101 Closed Captioning

Prerequisite: CDIM 100

This course consists of lectures about re-speaking, technologies, sources of error, paraphrasing, and software options and hands-on practice which are dedicated to using softwares to create CC. Upon completion of this course, students will be able to identify the technologies associated with the production and distribution of CC, outline the variety of errors in CC, create equivalent paraphrased captions that maintain meaning, and produce CC for one 5-minute segment for television and for online video.

Students wishing to enrol in CDIM 101 for Fall term, must first be enrolled in CDIM 100. Contact Ana Abreu at aabreu@ryerson.ca for permission to enrol in CDIM 101.

21.0 Hours

Fee: \$395.00

NEW!

❖ CDIM 102 Audio Description

Prerequisite: CDIM 100

This course consists of lectures about media languages, script writing, voicing techniques, audio processing and hands-on practice which are dedicated to using softwares to create AD. Upon completion of this course, students will be able to understand the different languages used in an audiovisual production and their importance in AD, the different AD styles, to write one AD script for different media and genres, and voice one AD script using different professional softwares.

Students wishing to enrol in CDIM 102 for Winter term, must be enrolled in or have successfully completed, CDIM 100. Contact Ana Abreu at aabreu@ryerson.ca for permission to enrol in CDIM 102.

21.0 Hours

Fee: \$357.38

NEW!

❖ CDIM 103 Closed Captioning Advanced

Prerequisites: CDIM 100 and CDIM 101

This course consists of production methods with hands-on practice and feedback. Students will be asked to produce a 10-minute clip with CC, calculate accuracy according to CRTC regulations, and have it reviewed by the class. They will also produce a 1-hour show with CC on their own. Students are expected to demonstrate an understanding of CC production using the respeaking method and of error types and inconsistencies as they appear in CC.

21.0 Hours

Fee: \$395.00

NEW!

❖ CDIM 104 Audio Description Advanced

Prerequisites: CDIM 100 and CDIM 102

This course consists of production methods with hands-on practice and feedback. Students will be asked to produce a 10-minute clip with AD and have their script and audio production reviewed by the class. They will also produce a 1-hour show with AD on their own. Students are expected to demonstrate their understanding of AD, have a critical approach towards AD and other student's work and produce AD for any type of audiovisual media and genre.

21.0 Hours

Fee: \$395.00

BUSINESS

Accounting

★ CACC 100 Introductory Financial Accounting

Antirequisite: 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.

39.0 Hours

Fee: \$808.77

★ CACC 110 Financial Accounting

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.

39.0 Hours

Fee: \$808.77

☆ CACC 333 Core Concepts of Accounting

Prerequisites: CACC 100 and CACC 406

This course is for students who have completed CACC 100 and CACC 406 and wish to minor in either Accounting or Finance. This is a demanding course that should prepare you for Intermediate Accounting.

39.0 Hours

Fee: \$647.05

★ CACC 406 Introductory Management Accounting

*Prerequisite: CACC 100 or CACC 110 or AFA 100 or Business Management Special student;
Antirequisite: 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.

39.0 Hours

Fee: \$647.05

★ CACC 410 Management Accounting

Prerequisite: 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.

39.0 Hours

Fee: \$647.05

★ CACC 414 Intermediate Accounting I

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CACC 504 Accounting Cases and Concepts I

Corequisite: 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.

39.0 Hours

Fee: \$581.31

★ CACC 514 Intermediate Accounting II

Prerequisite: CACC 414

This course continues from the CACC 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 CACC 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.

39.0 Hours

Fee: \$581.31

★ CACC 521 Auditing

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CACC 522 Taxation for Managers and Financial Planners

Prerequisite: CACC 110

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.

39.0 Hours

Fee: \$581.31

☆ CACC 607 Accounting for Small Business

Prerequisite: CACC 410

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.

39.0 Hours

Fee: \$581.31

★ CACC 703 Advanced Financial Accounting

Prerequisites: CACC 504 and CACC 514

This course is designed for students pursuing a professional accounting designation, and covers the more complex aspects of financial accounting. The course includes coverage of Long Term Intercorporate Investments, Consolidations, Foreign Currency Translations and Reporting of Foreign Operations in accordance with International Financial Reporting Standards (IFRS's). Accounting Standards for Private Enterprises (ASPE) relating to course topics will also be reviewed. A case analysis approach is emphasized.

39.0 Hours

Fee: \$581.31

★ CACC 742 Canadian Business Taxation I

Prerequisites: CACC 514

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.)

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.

39.0 Hours

Fee: \$581.31

★ CACC 801 Intermediate Cost and Management Accounting

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

☆ CACC 821 Advanced Auditing

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CACC 842 Canadian Business Taxation II

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

CZAA 100 Understanding Financial Information

This course will provide students in the Human Resources Professional Association (HRPA) program with an overview of both financial and managerial accounting. Students will acquire a basic understanding of generally accepted accounting principles (GAAP), how they are used to develop the components of standard financial statements, and how financial statements are used by various decision-makers within and outside the firm. Cost behaviour, cost-volume-profit analysis, budgeting and analysis of budget variances will also be covered.

39.0 Hours

Fee: \$581.31

Economics

★ **CECN 104 Introductory Microeconomics**

Antirequisite: ECN 101

This is an introductory course to economics. 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.

39.0 Hours

Fee: \$588.18

★ **CECN 110 The Economy and Society**

Antirequisites: ECN 101, CECN 104;

Not available to students in the Ted Rogers School of Management, Occupational and Public Health (Health and Safety), or Urban and Regional Planning.

The lower level liberal studies course deals with the application of market economics to explain certain aspects of human behaviour. We first discuss the basic microeconomic concepts that are essential for understanding both markets and human behaviour. These include the concepts of opportunity cost, marginal cost-marginal benefit analysis, the demand curve, the supply curve, and how equilibrium is arrived at in free functioning markets. We then apply these tools to various social topics and issues. We often find that by applying the economic approach we arrive at explanations that are often counter-intuitive.

39.0 Hours

Fee: \$588.18

★ **CECN 129 Statistics for Economics I**

Prerequisite: CECN 189 or MTH 189 or ECN 89A/B or QMS 130 or CQMS 702;

Antirequisites: CMTH 304, CQMS 202, QMS 230

This course is an introduction to basic statistics with economic applications. It is followed by a course on Statistics for Economics II, ECN 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.

52.0 Hours

Fee: \$588.18

★ **CECN 189 Mathematics for Economics I**

Prerequisite: CECN 109;

Antirequisites: CMTH 207, QMS 130, CQMS 702

CECN 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.

52.0 Hours

Fee: \$774.94

★ **CECN 204 Introductory Macroeconomics**

Antirequisite: ECN 201

This is an introductory course to economics. This course is concerned with basic concepts 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.

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

39.0 Hours

Fee: \$588.18

☆ **CECN 205 Economics of Change and Conflict**

Antirequisites: ECN 609 and ECN 630

This lower liberal studies course provides an introduction to the economic development of Europe from ancient times until the 'First Era of Globalization' in the late 19th century with emphasis on the economic causes of the American, French and Industrial revolutions. The course then analyzes the effects on the world economy of the Russian Revolution and the Great Depression. Finally, some more recent economic development issues in Asia, Africa, and the Middle East are examined.

39.0 Hours

Fee: \$588.18

★ **CECN 230 Mathematics for Economics II**

Prerequisite: CECN 189 or MTH 189 or ECN 89A/B or QMS 130 or CQMS 702;

Antirequisite: 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.

52.0 Hours

Fee: \$588.18

★ **CECN 301 Intermediate Macroeconomics I**

Prerequisites: (ECN 101 or CECN 104) and (ECN 201 or 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.

52.0 Hours

Fee: \$569.40

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

Prerequisite: ECN 101 or 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.

39.0 Hours

Fee: \$569.40

☆ **CECN 329 Statistics for Economics II**

Prerequisite: CECN 129 or CGMS 202 or GMS 210 or GMS 230 or CMTH 304;

Corequisite: CECN 230;

Antirequisites: CMTH 404, CGMS 442

CECN 329 is a continuation of the topics covered in CECN 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.

52.0 Hours

Fee: \$569.40

★ **CECN 340 The Economics of Human Behaviour**

This lower level liberal studies course investigates human behaviour from an economic perspective. Among the topics we analyze is the economics of religious behaviour and the afterlife, sexual behaviour, marriage and divorce, crime, mass hysteria and panics, suicide and dying, emotions, and the economics of sports.

39.0 Hours

Fee: \$569.40

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

Prerequisites: ECN 101 or CECN 104 or Direct Entry

This course applies tools of economics and statistics to problems of natural resources and studies 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.

39.0 Hours

Fee: \$569.40

☆ **CECN 503 Economic Development**

Antirequisite: ECN 726

This upper level liberal studies course describes the challenges faced by developing economies with an emphasis on persistent world poverty. We analyze questions such as extreme poverty, living under a dollar per day and the burden of disease. We also study the role of markets, government and non-governmental organizations in fostering economic development.

39.0 Hours

Fee: \$569.40

★ **CECN 504 Intermediate Microeconomics I**

Prerequisites: (ECN 101 or CECN 104) and (ECN 201 or 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.

52.0 Hours

Fee: \$569.40

★ **CECN 506 Money and Banking**

Prerequisites: ECN 201 or CECN 204 or Direct Entry;

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

☆ **CECN 509 Economic Issues in Money and Banking**

Antirequisite: CECN 506

This upper level liberal studies course uses economic institutions around which to study economic development of the Canadian banking and finance system in particular. Topics include: the purpose, structure and regulations of the chartered banks and other financial institutions, monitoring developments in the money market and the monetary initiatives of the Bank of Canada.

39.0 Hours

Fee: \$569.40

★ **CECN 510 Environmental Economics**

Prerequisite: ECN 101 or CECN 104 or Direct Entry;

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

★ **CECN 511 Economy and Environment**

Antirequisite: CECN 510

This upper level liberal studies 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."

39.0 Hours

Fee: \$569.40

★ **CECN 512 The Economics of Sex**

Prerequisites: ECN 101 or CECN 104 or CECN 110 or CECN 210 or Direct Entry

This upper level liberal studies course offers a critical analysis of topics in gender economics and the choices made in modern day relationships of love and sex. It offers an exploration into traditional gender economic issues such as gender differences and educational attainment, occupational choice, labour market participation and income. The course also applies economics to the choices made with respect to love and sex such as who we chose to love, date, and marry.

39.0 Hours

Fee: \$569.40

★ **CECN 600 Intermediate Macroeconomics II**

Prerequisite: 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.

52.0 Hours

Fee: \$569.40

★ **CECN 603 Economic Issues in Globalization**

Prerequisite: ECN 101 or CECN 104 or ECN 201 or CECN 204 or CECN 210 or Direct Entry;
Antirequisite: CECN 707

This upper level liberal studies course provides an analysis of the benefits of international trade. The course examines the effects of tariffs and quotas on industry and provides an appraisal of the arguments for protectionism. Other topics covered are international trade agreements such as NAFTA and CETA.

39.0 Hours

Fee: \$569.40

★ **CECN 606 International Monetary Economics**

Prerequisite: CECN 301;
Antirequisite: 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.

52.0 Hours

Fee: \$569.40

☆ **CECN 607 Issues in the International Economy**

Antirequisites: CECN 606, CECN 721

This upper level liberal studies course examines how international financial markets affect national economies. The course will build tools, such as the balance of payments and exchange rate theory, to understand international money and finance. These tools will be applied to a large number of real world issues such as the efficiency of foreign exchange markets, currency crises and speculative attacks, dollarization, international capital flows and portfolio diversification.

39.0 Hours

Fee: \$569.40

★ **CECN 627 Econometrics I**

Prerequisites: (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.

52.0 Hours

Fee: \$569.40

★ **CECN 700 Intermediate Microeconomics II**

Prerequisite: 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.

52.0 Hours

Fee: \$569.40

★ **CECN 702 Econometrics II**

Prerequisite: 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.

52.0 Hours

Fee: \$569.40

★ **CECN 707 Economics of International Trade I**

Prerequisite: CECN 504;
Antirequisite: CGMS 601 (formerly 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.

52.0 Hours

Fee: \$569.40

★ **CECN 722 Economic Issues in Professional Sports**

Antirequisite: ECN 729

This upper level liberal studies course examines the economics of professional and collegiate athletics. It begins by reviewing the demand, supply and elasticity and continues by studying the market structures, labour demand and supply. Topics to be covered include the benefits of sports franchises and stadiums, strikes, lockouts, salary discrimination, unions, broadcasting rights, free agency, “scalping”, salary caps, drafts and the paying of collegiate athletes.

39.0 Hours

Fee: \$569.40

☆ **CECN 801 Principles of Engineering Economics**

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.

42.0 Hours

Fee: \$569.40

Energy Management

🔗 CKEI 140 Current Topics in Energy Management and Innovation

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.

This is an online home study course.

39.0 Hours

Fee: \$917.90

★ CTEC 241 Energy Innovation

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.

39.0 Hours

Fee: \$774.26

★ CTEC 264 Trends in Smart Grid

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.

39.0 Hours

Fee: \$774.26

★ CTEC 269 Trends in Energy Conservation

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.

39.0 Hours

Fee: \$774.26

★ CTEC 282 Public Policy in Energy

This course introduces students to the wide range of factors that influence the implementation of energy policy in Canada. 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.

39.0 Hours

Fee: \$774.26

Entrepreneurship and Strategy

★ CENT 500 New Venture Startup

Antirequisites: ENT 726 and RTA 913 (formerly BDC 913)

This introductory course is designed primarily for non-Entrepreneurship students who are interested in starting a business of their own. Topics include 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.

39.0 Hours

Fee: \$581.31

☆ CENT 501 Family Business in Canada

Planning, Succession and Control. The students study many of Canada's internationally known family-run businesses. They will learn about the challenges faced by the owners in planning and succession as well as the impact that family structure plays in determining the future of the firm. Key issues to be examined include the relationship between ownership and management, the strategic planning process, succession planning, technical and management skills, support structures, funding, leadership and the family structure.

39.0 Hours

Fee: \$581.31

★ CENT 505 Small-Business Management

Prerequisite: 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.

Students who do not have the prerequisite and require academic advising should contact Melissa Johnson, Program Coordinator, at m1johnso@ryerson.ca.

39.0 Hours

Fee: \$581.31

★ CENT 526 Entrepreneurial Behaviour and Strategy

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.

39.0 Hours

Fee: \$581.31

★ CENT 601 Identifying Opportunities

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 regimen 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.

39.0 Hours

Fee: \$581.31

CZEN 420 The Business of Cannabis

This introductory course is intended to familiarize students with the cannabis industry in Canada and, more specifically, Ontario. This course will introduce students to relevant entrepreneurship principles such as opportunity recognition and evaluation, while focusing on issues specific to starting and operating a cannabis business, including cannabis legislation at the provincial and federal levels, financing for cannabis businesses, and regulations pertaining to the cultivation, processing, distribution, marketing, and selling of cannabis in Canada.

It is strongly recommended that students have an understanding of basic business concepts.

39.0 Hours

Fee: \$958.21

Finance

★ CFIN 300 Managerial Finance I

Prerequisite: CACC 100 or CACC 110 or AFA 100 or Direct Entry;
Antirequisites: AFF 210, CECN 320, HTA 602

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.

39.0 Hours

Fee: \$581.31

★ CFIN 401 Managerial Finance II

Prerequisite: CFIN 300 or AFF 210 or CECN 320 or HTA 602;
Antirequisite: AFF 310

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.

39.0 Hours

Fee: \$581.31

★ CFIN 501 Investment Analysis

Prerequisite: CFIN 401 or AFF 310;
Antirequisite: AFF 501

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.

39.0 Hours

Fee: \$581.31

★ CFIN 502 Personal Financial Planning

Prerequisite: CFIN 300 or HTA 602 or AFF 210;
Antirequisite: AFF 502

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.

39.0 Hours

Fee: \$581.31

★ CFIN 512 Risk Management and Insurance

Prerequisite: CFIN 300 or AFF 210 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.

39.0 Hours

Fee: \$581.31

☆ CFIN 562 Personal Finance

Antirequisite: 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.

39.0 Hours

Fee: \$581.31

★ CFIN 601 Derivatives

Prerequisite: CFIN 501;
Antirequisite: AFF 410

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.

39.0 Hours

Fee: \$581.31

★ CFIN 612 Retirement and Estate Planning

Corequisite: CFIN 502 or AFF 502;
Antirequisite: AFF 612;

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.

39.0 Hours

Fee: \$581.31

★ CFIN 621 International Finance

Prerequisite: CFIN 401;
Antirequisite: AFF 624

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)

39.0 Hours

Fee: \$581.31

★ CFIN 812 Advanced Personal Financial Planning

Prerequisites: (CACC 522 or AFA 517), (CFIN 501 or AFF 501), (CFIN 512 or AFF 512) and (CFIN 612 or AFF 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.

39.0 Hours

Fee: \$581.31

Global Management Studies

★ CGMS 200 Introduction to Global Management

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)

39.0 Hours

Fee: \$636.62

★ CGMS 400 The Global Business Environment

Prerequisites: CGMS 200 or MGT 200 or MGT 121 or Direct Entry

This course offers an introduction to the global business environment. Students will explore the trend towards increased globalization of the world's economies and the implications for business, consumers and society in general. The course will also introduce students to a number of strategic decisions firms must make in order to compete effectively in the current global business environment. Factors to be considered in areas such as foreign market entry and the management of global operations will be explored. Students will also have the opportunity to develop an understanding of how business is conducted in key geographic regions such as Asia, Latin America, Africa and the Middle East. The major cultural, political and economic factors that shape the approach to business in these regions will be examined. The course will utilize a combination of lectures, case studies, guest speakers and classroom discussion to reinforce key concepts.

39.0 Hours

Fee: \$581.31

★ CGMS 401 Operations Management

Prerequisites: (CGMS 200 or MGT 200 or MGT 121) and (CGMS 102 or QMS 110 or QMS 130 or QMS 204 or CITM 107)

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)

39.0 Hours

Fee: \$581.31

★ CGMS 402 Introduction to Managerial Economics

Prerequisites: [(CGMS 200 or MGT 200 or MGT 121) and (CGMS 202 or QMS 210 or QMS 230)] 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)

39.0 Hours

Fee: \$581.31

★ CGMS 422 Quality Management

Prerequisites: (CGMS 202 or QMS 210 or QMS 230) 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).

39.0 Hours

Fee: \$581.31

★ CGMS 450 Project Management

Prerequisite: 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)

39.0 Hours

Fee: \$581.31

☆ CGMS 502 Management Control

Prerequisites: [(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)

39.0 Hours

Fee: \$581.31

★ CGMS 522 International Marketing

Prerequisite: CMKT 100 or HTM 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)

39.0 Hours

Fee: \$581.31

★ CGMS 528 Issues in Operations Management

Prerequisite: 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)

39.0 Hours

Fee: \$581.31

★ CGMS 690 The North American Business Environment

Prerequisite: 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.

39.0 Hours

Fee: \$636.62

★ CGMS 691 The Asian Business Environment

Prerequisite: 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.

39.0 Hours

Fee: \$636.62

★ CGMS 692 The European Business Environment

Prerequisite: 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.

39.0 Hours

Fee: \$636.62

★ CGMS 805 Manufacturing Management

Prerequisite: (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)

39.0 Hours

Fee: \$581.31

★ CGMS 723 International Trade

Prerequisite: CGMS 401 or MGT 401 or HTF 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)

39.0 Hours

Fee: \$581.31

★ CGMS 724 Management of International Enterprise

Prerequisite: CGMS 401 or MGT 401 or HTF 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)

39.0 Hours

Fee: \$581.31

★ CGMS 802 Ethics and Regulation of Int'l Bus

Prerequisite: CGMS 401 or MGT 401 or MGT 100/CGMS 200 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)

39.0 Hours

Fee: \$581.31

Hospitality and Tourism

★ CHTI 746 Destination Management Systems

Prerequisite: CITM 102 or Direct Entry

Hospitality and Tourism destinations promote themselves by developing dynamic inviting websites. Destination management strategies must embrace 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 destination websites, will learn how search engine optimization and social media can increase traffic and will create a website and measure its success.

39.0 Hours

Fee: \$586.10

Human Resources

★ CMHR 405 Organizational Behaviour

This course introduces students to theories of organizational behaviour. Topics include motivation, communication, team dynamics, conflict, perception, attitudes, personality, power, influence and leadership.

NOTE TO ONLINE STUDENTS: For Spring/Summer online sections of CMHR405, students will be expected to participant in an online webinar, once/week for one hour. Dates and times will be confirmed.

39.0 Hours

Fee: \$629.07

★ CMHR 505 Organizational Behaviour II

Prerequisite: CMHR 405 or HTH 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.

Only students who completed CMHR 405 prior to Fall 2019 may enrol in this course.

39.0 Hours

Fee: \$581.31

★ CMHR 522 Union Management Relations

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 called Industrial Relations)

39.0 Hours

Fee: \$581.31

★ CMHR 523 Human Resources Management

Antirequisite: CRI 700

This course introduces 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.)

39.0 Hours

Fee: \$581.31

★ CMHR 600 Diversity and Inclusion in the Workplace

Prerequisite: CMHR 523 or HTH 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.

39.0 Hours

Fee: \$581.31

★ CMHR 623 Recruitment and Selection

Prerequisite: CMHR 523 or HTH 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 conduct a job analysis, 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.

39.0 Hours

Fee: \$581.31

★ CMHR 640 Leadership

Prerequisite: CMHR 405 or HTH 601

This course provides an in-depth examination of leadership as both a practice and a field of study. By applying current research on leadership and followership to cases, movies, and real-life examples, students will develop a greater understanding of how to lead and be led.

39.0 Hours

Fee: \$650.18

★ CMHR 650 Management of Change

Prerequisite: CMHR 405 or HTH 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 involves combining change theory with practice through an innovative online simulation.

39.0 Hours

Fee: \$581.31

★ CMHR 700 Cross-Cultural Dimensions of

Organizational Behaviour

Prerequisite: CMHR 405 or HTH 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.

39.0 Hours

Fee: \$581.31

★ CMHR 711 Occupational Health and Safety

*Prerequisite: CMHR 523 or HTH 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.

39.0 Hours

Fee: \$581.31

★ CMHR 721 Negotiation and Conflict Resolution

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.

39.0 Hours

Fee: \$650.18

★ CMHR 733 Training and Development

Prerequisite: CMHR 523 or HTH 503 or Direct Entry

This course explains how the training and development function furthers an organization's strategy and its performance management process. It helps students understand and apply relevant theories to the design, delivery and evaluation of training programs. Related topics include; assessing training needs, setting learning outcomes and training objectives, designing, delivering and evaluating training programs.

39.0 Hours

Fee: \$581.31

★ CMHR 741 Managing Interpersonal Dynamics and Teams

Prerequisite: CMHR 405 or HTH 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, ability to interact effectively and ability to manage teams. 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 teams. 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)

39.0 Hours

Fee: \$650.18

★ CMHR 749 Compensation Management

Prerequisite: CMHR 523 or HTH 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.

39.0 Hours

Fee: \$581.31

★ CMHR 841 Organization Theory and Design

Prerequisite: CMHR 405 or HTH 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).

39.0 Hours

Fee: \$650.18

★ CMHR 849 Human Resources Planning

Prerequisites: CMHR 523 and three of (CMHR 405, CMHR 522, CMHR 600, CMHR 623, 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 centered 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.

39.0 Hours

Fee: \$581.31

Industrial Engineering

★ CIND 108 Data Analytics for Non-Data Analysts

This course is designed to give non-data analysts an overview of big data, the status of practice in analytics, the role of the data scientists, big data analytics in industry verticals, and data analytics lifecycle as an end-to-end process. This course aims at providing the ability to make effective decisions in a data-driven manner.

39.0 Hours

Fee: \$1,027.32

★ CIND 110 Data Organization for Data Analysts

This course provides a foundation in data management for data analysts. Topics include database architectures, formation of queries, queries themselves, data warehousing, relational database systems, NoSQL, and responsibilities of data management professionals.

Course materials, video lectures and discussions are delivered and facilitated online within the D2L Learning Management System.

Throughout the semester, student questions related to course content may be answered either by the instructor on discussion board or by an online tutor via email. For more information, please email Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca

42.0 Hours

Fee: \$1,027.32

★ CIND 119 Introduction to Big Data

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 life-cycle as an end-to-end process. It focuses on key roles for a successful analytic project, main phases of the life-cycle, developing core deliverables for stakeholders, team work skills, and problem solving skills.

Course materials, video lectures and discussions are delivered and facilitated online within the D2L Learning Management System.

Throughout the semester, student questions related to course content may be answered either by the instructor on discussion board or by an online tutor via email. For more information, please email Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca

42.0 Hours

Fee: \$1,027.32

★ CIND 123 Data Analytics: Basic Methods

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.

Course materials, video lectures and discussions are delivered and facilitated online within the D2L Learning Management System.

Throughout the semester, student questions related to course content may be answered either by the instructor on discussion board or by an online tutor via email. For more information, please email Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca

42.0 Hours

Fee: \$1,027.32

★ CIND 719 Big Data Analytics Tools

Department Consent Required

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.

Course materials, video lectures and discussions are delivered and facilitated online within the D2L Learning Management System.

Throughout the semester, student questions related to course content may be answered either by the instructor on discussion board or by an online tutor via email. For more information, please email Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca

39.0 Hours

Fee: \$1,027.32

Law

★ CLAW 122 Business Law

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.

39.0 Hours

Fee: \$581.31

★ CLAW 326 Law for Health Managers

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.

39.0 Hours

Fee: \$581.31

★ CLAW 401 Information Access and Privacy Protection

Prerequisites: 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.

The prerequisite may be waived for registered certificate program students who can demonstrate adequate professional experience or education related to business law that satisfies program requirements. Please contact the Academic Coordinator, Pnina Alon-Shenker, at pnina.Alon@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

★ CLAW 402 Health Information Access and Privacy

Prerequisites: 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.

The prerequisite may be waived for registered certificate program students who can demonstrate adequate professional experience or education related to business law that satisfies program requirements. Please contact the Academic Coordinator, Pnina Alon-Shenker, at pnina.Alon@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

★ CLAW 525 The Law of the Marketplace

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CLAW 529 Employment and Labour Law

Prerequisite: 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.

The prerequisite may be waived for registered certificate program students who can demonstrate adequate professional experience or education related to business law that satisfies program requirements. Please contact the Academic Coordinator, Pnina Alon-Shenker, at pnina.Alon@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

☆ CLAW 601 Intellectual Property Law

Prerequisite: CLAW 122

This Course is for students seeking solid grounding in Intellectual Property law. IP rights (including patents, copyrights, trademarks, industrial designs, confidential information, geographical indicators, traditional knowledge and personality rights) have increasing significance in manufacturing and knowledge-based economies. 21st Century business environments require working knowledge of IP and the ability to interact with IP assets and internal/external IP professionals. Course reviews current Canadian IP law and provides practical advice/strategies for dealing with IP issues.

39.0 Hours

Fee: \$581.31

★ CLAW 603 Advanced Business Law

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CLAW 723 Issues in Information Technology Law

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CLAW 724 Legal Aspects of International Business

Prerequisite: 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)

The prerequisite may be waived if the student has specific professional experience. Registered certificate program students without the course prerequisites who wish to take this course, may contact the Academic Coordinator, Pnina Alon-Shenker, at pnina.Alon@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

⊕ CZLW 120 Law for Forensics Professionals

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.

39.0 Hours

Fee: \$922.84

NEW!

CZLW 200 Blockchain and Cryptocurrencies

This introductory course will examine legal, governance, risk, and compliance (GRC) issues surrounding blockchain, smart contracts and crypto currency technologies to provide a better understanding of their underlying foundations, formulate governance questions, and critically analyze these emerging technologies. Various distributed (shared ledger) crypto currencies, including Bitcoin, will be discussed as well as opportunities and limitations of blockchain and ethereum. The regulation of blockchain in the US and Canada, including securities law, will also be reviewed.

39.0 Hours

Fee: \$752.76

⊕ CZLW 327 Privacy By Design

As ubiquitous computing and data analytics proliferate, privacy, trust, and innovation are becoming essential. This course will provide a deep-dive into Privacy by Design, an internationally recognized framework for proactively embedding privacy into the design of information technologies and business practices to gain a competitive advantage. The need to reject zero-sum (win/lose) models will be explained, in favour of adopting doubly-enabling (win/win) positive-sum paradigms.

39.0 Hours

Fee: \$669.36

NEW!

CZLW 420 Cannabis Law for Business

Understanding the cannabis industry's complex regulatory environment is essential for strategic business decision-making. Students will interpret the federal Cannabis Act and related provincial legislation from a business perspective and discuss the laws and regulations related to the production, distribution, and selling of cannabis, both for medical and recreational markets. Students will examine how cannabis products (including edibles) can be effectively brought to market by considering various issues, including marketing and advertising, intellectual property, and import/export.

39.0 Hours

Fee: \$958.21

⊕ CZLW 527 Applying Privacy and Access

Department Consent Required

This is the Privacy, Access, and Information Management certificate's culminating course in which students will apply the principles of privacy and access to a project focused on an emerging technology within a particular sector. Emphasis will be placed on topics previously covered in the required courses such as privacy by design, established professional privacy and access practices, the impact of technology, and the role of stakeholder engagement and organizational values.

39.0 Hours

Fee: \$669.36

Management

🔗 CZMN 200 CSR Citizenship and Sustainability

This course explores how the three-pronged people-planet-profit sustainability model is applied to businesses operating in a number of different industry sectors. Students are introduced to definitional, conceptual, and theoretical aspects of corporate social responsibility (CSR), the challenges facing CSR-oriented firms in balancing the immediate financial sustainability with the need for long term economic, social, and environmental benefits for the communities and other stakeholders impacted by their operations, as well as possible methods for addressing people-planet-profit challenges.

39.0 Hours

Fee: \$950.44

Marketing

★ CMKT 100 Principles of Marketing

Antirequisite: C1NP 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.

39.0 Hours

Fee: \$718.22

★ CMKT 300 Marketing Metrics and Analysis

Prerequisite: CMKT 100 or HTM 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.

39.0 Hours

Fee: \$581.31

★ CMKT 400 Understanding Consumers and the New Media

Prerequisite: CMKT 300;

Antirequisites: MKT 502, RMG 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.

39.0 Hours

Fee: \$581.31

★ CMKT 500 Marketing Research

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CMKT 504 Effective Persuasion

Prerequisite: CMKT 100 or HTM 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.

39.0 Hours

Fee: \$581.31

★ CMKT 510 Innovations in Marketing

Prerequisite: CMKT 400 or CRMG 302

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. (Transfer credits will not be granted).

39.0 Hours

Fee: \$581.31

★ CMKT 600 Integrated Case Analysis

Prerequisite: 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. (Transfer credits will not be granted).

39.0 Hours

Fee: \$581.31

★ CMKT 700 Business Intelligence/Decision Modeling

Prerequisite: 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. (Transfer credits will not be granted).

39.0 Hours

Fee: \$581.31

★ CMKT 702 Advanced Marketing Management

Prerequisite: CMKT 500 and (CMKT 510 or 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. (Transfer credits will not be granted).

39.0 Hours

Fee: \$581.31

★ CMKT 723 Services Marketing

Prerequisite: CMKT 100 or HTM 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.

39.0 Hours

Fee: \$581.31

★ CMKT 730 Assessing/Managing Market Opportunities

Prerequisite: CMKT 100 or HTM 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.

39.0 Hours

Fee: \$581.31

☆ CMKT 802 Advanced Market Planning

Prerequisite: CMKT 600 and CMKT 702

This capstone course provides students with the opportunity to work in groups to develop a complete integrated marketing plan for a real client. The plan includes a complete set of actionable tactical and strategic recommendations based on primary and secondary research that addresses the client's problems and issues and identifies future opportunities. There is a strong emphasis on interpersonal skills as students manage their project timelines and their relationship with their client. (Transfer credits will not be granted).

39.0 Hours

Fee: \$581.31

★ CMKT 828 Sport Marketing Concepts and Strategy

Prerequisite: CMKT 100 or HTM 302 or Direct Entry;

Antirequisite: 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.

39.0 Hours

Fee: \$581.31

Mathematics

CKMT 101 Transcendental Functions

Students will investigate the properties of polynomial, rational, radical, logarithmic, exponential, and trigonometric functions with the applications in the rate of change and graphing.

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.

52.0 Hour

Fee: \$917.89

CKMT 102 Advanced Calculus and Vectors

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.

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.

52.0 Hours

Fee: \$917.89

CKMT 103 Advanced Data Management

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.

An Academic Bridging Course. Please contact Undergraduate Admissions and Recruitment for details.

52.0 Hours

Fee: \$917.89

☆ CMTH 108 Linear Algebra

Systems of linear equations, matrices determinants, vectors, geometry, linear transformations, linear independence, basis, dimension, eigenvalues and eigenvectors, complex numbers, applications.

65.0 Hours

Fee: \$999.26

☆ CMTH 110 Discrete Mathematics I

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.

52.0 Hours

Fee: \$1078.55

★ CMTH 125 Mathematics for Professional Programs

Basic Algebra, finite series, coordinate geometry, trigonometric functions, radicals and exponents, exponential and logarithmic functions, and a basic introduction to statistics.

52.0 Hours

Fee: \$1078.55

★ CMTH 131 Modern Mathematics I

Limits and continuity. Differentiation with applications. Newton-Raphson method. Integration; the Fundamental Theorem of Calculus.

52.0 Hours

Fee: \$1078.55

★ CMTH 207 Calculus and Computational Methods I

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.

It is recommended that students take OAC or Grade 12 U Calculus prior to taking this course.

65.0 Hours

Fee: \$1153.45

★ CMTH 231 Modern Mathematics II

Prerequisite: CMTH 131

Implicit functions and differentiation. Related rates, concavity, inflection points and asymptotics. Optimization. L'Hôpital's rule. Applications of integration. Techniques of integration. Vectors: geometric and analytic descriptions; dot product, orthogonality and projection; cross product; lines and planes in 3-space.

52.0 Hours

Fee: \$1078.55

★ CMTH 310 Calculus and Computational Methods II

Prerequisite: CMTH 207

Integration techniques, improper integrals, sequences, infinite series, power series. Vectors: geometric and analytic descriptions; dot product, orthogonality and projection; cross product; lines and planes in 3-space.

65.0 Hours

Fee: \$1153.45

★ CMTH 380 Probability and Statistics I

Probability and Statistics I: Descriptive statistics. Probability (Laws of probability. Conditional probability. Discrete probability distributions (binomial, hypergeometric, Poisson). Continuous probability distributions, Normal, t-exponential, χ^2 . Applications of discrete and continuous distributions. Sampling distributions (sample mean, sample proportion, difference between two samples, difference between two sample proportions). Sampling distribution concerning mean variance and proportion for one or two populations. Estimation for large and small samples. Hypothesis testing concerning mean, variance and proportion for one or two populations, (large samples and small samples) including paired data testing.

52.0 Hours

Fee: \$875.11

☆ CMTH 480 Probability and Statistics II

Prerequisite: CMTH 380;

Antirequisite: CMTH 404

A continuation of the introductory topics covered in MTH 380. ANOVA One and two-way. Correlation. Regression. Contingency Tables. Goodness of fit tests. A statistics computer package will be used in this course.

39.0 Hours

Fee: \$621.04

★ CMTH 500 Introduction to Stochastic Processes

Prerequisite: CMTH 404 or CMTH 480 or CECN 702

Topics include: Conditional expectation. Markov chains. Poisson process and Compound Poisson process. Continuous-time Markov processes. Discrete-time martingales. Continuous-time martingales. Brownian motion. Stochastic integration and introduction to stochastic differential equations.

39.0 Hours

Fee: \$599.65

★ CMTH 501 Numerical Analysis I

Prerequisite: CECN 230 or (CMTH 231 and CMTH 108) or (CMTH 310 and CMTH 108)

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.

52.0 Hours

Fee: \$875.11

★ CMTH 600 Computational Methods In Mathematics

Prerequisites: CMTH 500 and (CMTH 501 or MTH 510)

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.

52.0 Hours

Fee: \$875.11

★ CMTH 642 Data Analytics: Advanced Methods

Department Consent Required

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.

Course materials, video lectures and discussions are delivered and facilitated online within the D2L Learning Management System.

Throughout the semester, student questions related to course content may be answered either by the instructor on discussion board or by an online tutor via email. For more information, please email Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca

39.0 Hours

Fee: \$1,027.32

★ CMTH 700 Financial Mathematics I

Prerequisite: 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.

Students currently enrolled in the Financial Mathematics Undergraduate Degree program will not be permitted to register in this course. All other students should contact ce@ryerson.ca to obtain permission to enrol.

52.0 Hours

Fee: \$875.11

★ CMTH 800 Financial Mathematics II

Prerequisite: 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.

Students currently enrolled in the Financial Mathematics Undergraduate Degree program will not be permitted to register in this course. All other students should contact ce@ryerson.ca to obtain permission to enrol.

52.0 Hours

Fee: \$875.11

Mechanical Engineering

CKME 103 Machine Shop Practice

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.

Enrolment priority is given to students from Mechanical and Industrial Engineering. Please contact miedept@ryerson.ca for enrolment information.

39.0 Hours

Fee: \$917.89

CKME 136 Data Analytics: Capstone Course

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.

39.0 Hours

Fee: \$1,160.59

CKME 995 Data Analytics Fast Track - Option 1

This intensive program offers students a fast track to completion of the Certificate in Data Analytics, Big Data, and Predictive Analytics. Participants will complete four of the six courses required to earn the certificate: CIND 110, CIND 119, CIND 123, and CMTH 642. The required fifth and sixth courses, Big Data Tools (CIND 719) and Data Analytics: Capstone Course (CKME 136), are completed in subsequent academic terms of the student's choosing.

Note: For further information, contact Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca or at 416-979-5000, ext. 2665.

156.0 Hours

Fee: \$4,109.28

CKME 999 Data Analytics Fast Track - Option 2

This intensive program offers students a fast track to completion of the Certificate in Data Analytics, Big Data, and Predictive Analytics. Participants will complete five courses required to earn the certificate. 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 enrolment, students should register in the certificate program in advance of the priority enrolment period. For further information, contact Anne-Marie Brinsmead, Program Director, at a2brinsm@ryerson.ca or at 416-979-5000, ext. 2665.

234.0 Hours

Fee: \$5,136.60

Project Management

CKPM 123 Strategic Project Mgt (Tech Prof)

Prerequisite: 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 PDUs)

For further information about Professional Development Units (PDUs), see Project Management Institute.

35.0 Hours

Fee: \$774.26

CKPM 203 Planning and Scheduling

Prerequisite: CITM 750 or CKPM 202 or CTEC 210

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 PDUs)

For further information about Professional Development Units (PDUs), see Project Management Institute. This course is offered in the Spring/Summer term as part of 'Project Management Fast Track' (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.

35.0 Hours

Fee: \$774.26

CKPM 209 Project Risk and Quality Management

Prerequisite: CITM 750 or CKPM 202 or CTEC 210

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 PDUs)

For further information about Professional Development Units (PDUs), see Project Management Institute. This course is offered in the Spring/Summer term as part of 'Project Management Fast Track' (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. Includes a one-hour lunch break from 12:00-1:00 p.m.

35.0 Hours

Fee: \$774.26

🌀 CKPM 211 Leadership in Project Management

Prerequisite: CITM 750 or CKPM 202 or CTEC 210

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)

For further information about Professional Development Units (PDUs), see Project Management Institute. This course is offered in the Spring/Summer term as part of 'Project Management Fast Track' (CKPM 999).

35.0 Hours

Fee: \$774.26

🌀 CKPM 212 Project Cost and Procurement Management

Prerequisite: CITM 750 or CKPM 202 or CTEC 210

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)

For further information about Professional Development Units (PDUs), see Project Management Institute. This course is offered in the Spring/Summer term as part of 'Project Management Fast Track' (CKPM 999).

35.0 Hours

Fee: \$774.26

🌀 CKPM 213 Management of Projects in the AEC

Prerequisite: CKPM 202 or CTEC 210

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)

For further information about Professional Development Units (PDUs), see Project Management Institute.

35.0 Hours

Fee: \$774.26

🌀 CKPM 214 Project Development and Control

Prerequisite: CKPM 202 or CTEC 210

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)

For further information about Professional Development Units (PDUs), see Project Management Institute.

35.0 Hours

Fee: \$774.26

🌀 CKPM 216 Project Management Internship

Prerequisites: (CITM 750 or CKPM 202 or CTEC 210) 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)

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.

35.0 Hours

Fee: \$774.26

🌀 CKPM 217 Agile Project Management

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.

35.0 Hours

Fee: \$774.26

🌀 CKPM 219 Mobile Project Management

This course develops skill sets and advanced competencies in the management of Mobile Application Development projects using the agile project management framework. The course familiarizes students with mobile tools that optimize the management of Mobile Application Development projects including such tools as Asana, Clarizen, LiquidPlanner, Mavenlink, and Upwork. With this course, students develop expertise in Mobile Application Project delivery anytime and anywhere.

35.0 Hours

Fee: \$774.26

🌀 CKPM 220 Rescuing Failing Projects

This course provides a step-by-step process for recovering failing projects. Topics include assessing the issues to determine the next steps, putting on the brakes to reduce further damages, determining the root cause, staying on top of the overall recovery process, stabilizing the project, and orienting it to the desired trajectory.

35.0 Hours

Fee: \$774.26

🌀 CKPM 221 From Technical to Managerial

This course takes the students to several transformations to prepare them to transition from technical to managerial roles. Such transformations include moving from being technical savvy to business savvy and positioning from being a technical resource into a strategic partner. The course also addresses several mindset and framing obstacles that new managers may face such as improving their persuasion skills, enhancing their personal interactions, and managing daily stress at work and at home.

35.0 Hours

Fee: \$774.26

CKPM 989 PMP Exam Review

Department Consent Required

This course features specialized support in preparation for the Project Management Professional (PMP) exam.

12.0 Hours

Fee: \$452.00

CKPM 990 CAPM and PMP Exam Prep

Prerequisite: CKPM 202 or CTEC 210

This course features specialized support in preparation for the Project Management Professional (PMP) exam.

Students must have taken CKPM 202 or CTEC 210 based on the revision of the PMBOK guide used in the PMP exam they intend to write. This course is offered in the Spring/Summer term as part of 'Project Management Fast Track' (CKPM 999). A material fee of \$100 is included in the total fee indicated above. For further information, see Material Fees. This course will run during the Fall and Winter breaks.

24.0 Hours

Fee: \$806.05

CKPM 999 Project Management Fast Track

The Project Management Fast Track allows participants to complete six of the courses required to earn the Certificate in Project Management through an intensive program. Students will have PMP exam prep simulations with sample question and answer review led by the instructor.

238.0 Hours

Fee: \$5451.61

★ CTEC 210 Fundamentals of Project Management

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 provides a basic knowledge of project management as preparation for other courses in the program. (39 PDUs)

39.0 Hours

Fee: \$774.26

Quantitative Methods

★ CQMS 102 Business Statistics I

Antirequisites: QMS 204, QMS 210, QMS 230, and QMS 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. CQMS 102 is not transferable to the Business Management BComm degree program at Ryerson University.

39.0 Hours

Fee: \$738.87

★ CQMS 202 Business Statistics II

Prerequisite: CQMS 102 or QMS 204 or Direct Entry;

Antirequisite: CHIM 408, QMS 210, 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.

39.0 Hours

Fee: \$738.87

☆ CQMS 210 Applied Statistics for Business

Antirequisites: QMS 202, QMS 230

This course introduces both descriptive and inferential statistics. Students learn to use descriptive data, in both numeric and graphic formats, as well as inferential statistics to support managerial decisions in applied business contexts. Topics include grouped frequency distribution, measures of central tendency and variability, probability theory, sampling distribution, confidence intervals, hypothesis testing, and linear and multiple regression.

39.0 Hours

Fee: \$738.87

★ CQMS 442 Multiple Regression for Business

Prerequisite: CQMS 202 or QMS 210 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.

The prerequisites may be waived if the student has specific professional experience. Registered certificate program students without the course prerequisites who wish to take this course, may contact the Program Coordinator, Melissa Johnson, at mjohnso@ryerson.ca for more information. Supplies to be purchased by the student: Software and calculator specifications will be announced at the first session.

39.0 Hours

Fee: \$581.31

★ CQMS 521 Business Optimization

Prerequisite: CQMS 202 or QMS 210 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.

The prerequisites may be waived if the student has specific professional experience. Registered certificate program students without the course prerequisites who wish to take this course, may contact the Program Coordinator, Melissa Johnson, at mjohnso@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

☆ CQMS 522 Linear Algebra

Prerequisites: CQMS 202 or QMS 210 or QMS 230 or Direct Entry;
Antirequisites: CMTH 108, MTH 141

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.

39.0 Hours

Fee: \$581.31

☆ CQMS 702 Calculus for Business

Prerequisite: CQMS 202 or QMS 230 or QMS 110 or CITM 107 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.

39.0 Hours

Fee: \$581.31

★ CQMS 703 Business Forecasting Techniques

Prerequisite: CQMS 202 or QMS 210 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.

The prerequisites may be waived if the student has specific professional experience. Registered certificate program students without the course prerequisites who wish to take this course, may contact the Program Coordinator, Melissa Johnson, at mjohnso@ryerson.ca for more information.

39.0 Hours

Fee: \$581.31

Retail Management

★ CRMG 200 Intro to Retail and Services Management

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.

39.0 Hours

Fee: \$741.99

★ CRMG 301 Retail Operations Management

Prerequisites: 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.

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. This course is part of the Retail Operations Course Series.

39.0 Hours

Fee: \$581.31

★ CRMG 302 Retail Consumer Insight

Prerequisite: CRMG 200;

Antirequisites: CMKT 400 and MKT 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.

39.0 Hours

Fee: \$699.22

★ CRMG 303 Service Quality Management

Prerequisite: CRMG 200;

Antirequisite: 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.

This course is part of the Retail Operations Course Series.

39.0 Hours

Fee: \$650.18

★ CRMG 400 Buying Process I

Prerequisite: 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.)

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. This course is part of the Retail Buying Course Series.

39.0 Hours

Fee: \$581.31

★ CRMG 434 Intro to Logistics and Supply Chain Mgmt

Prerequisite: 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.

39.0 Hours

Fee: \$650.18

★ CRMG 452 Visual Merchandising and Space Planning

Prerequisite: 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.)

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. This course is part of the Retail Operations Course Series.

39.0 Hours

Fee: \$581.31

★ CRMG 806 Retailer Perspectives on Category Manage-

ment

Prerequisites: CRMG 400

Category Management for a retail buying and merchandising team requires understanding how different product groups and placement play a specific strategic role within each store. Balancing the right assortments, shelf space, and product placement decisions is directly related to shopper satisfaction, brand growth, efficient inventory management and profitability. In this course students will learn the foundations of category management theory, how to build effective planograms, the importance of collaborations between retail buyers and their suppliers/vendors, along with the strategies used across different categories in apparel, food and consumer packaged goods, toys, hardware and more.

39.0 Hours

Fee: \$581.31

★ CRMG 902 Franchising

Prerequisite: 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.

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.

39.0 Hours

Fee: \$581.31

★ CRMG 907 Relationship Marketing

Prerequisite: 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.

39.0 Hours

Fee: \$581.31

★ CRMG 909 Advanced Buying Process II

Prerequisite: 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 an integral part of the course content. (Formerly FSN 551)

This course is part of the Retail Buying Course Series.

39.0 Hours

Fee: \$581.31

★ CRMG 910 Omni-Channel Retailing

Prerequisite: CITM 350 or CRMG 200

Great retail is about creating a consistent experience across all channels and touchpoints with customers. This includes having a holistic strategy, known as the Omni-channel approach, to manage service and distribution channels that includes brick and mortar stores, online, mobile, catalogs, and more. For this reason, it is critical that all retail students understand how these channels function together, as well as the beneficial outcomes (e.g., customer satisfaction) of operating an integrative omni-channel business. The course helps students to develop skills to analyze a firm's omni-channel strategy and recommend solutions to help meet customers' needs. Further, students will learn different techniques and strategies on how to optimize the channel operations of a business.

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.

39.0 Hours

Fee: \$581.31

★ CRMG 911 Retail Sales Management

Prerequisite: 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.

39.0 Hours

Fee: \$650.18

★ CRMG 916 Managing B2B Channels

Prerequisites: 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.

39.0 Hours

Fee: \$650.18

★ CRMG 919 Visualizing Data for Decisions

Prerequisite: 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.

39.0 Hours

Fee: \$650.18

COMMUNICATION AND LANGUAGES

American Sign Language

☆ CASL 101 Introductory American Sign Language I

This professional elective course is designed for hearing students wishing to acquire some of the basic vocabulary and grammatical structures of American Sign Language (ASL). Through active participation, students learn to communicate in ASL, developing their ability to understand and use ASL fingerspelling, simple affirmative and interrogative statements. Students also learn to converse in ASL. By the end of this course, students should know 500 signs. Students with restricted dexterity may find the production of signs challenging.

39.0 Hours

Fee: \$638.84

☆ CASL 201 Introductory American Sign Language II

Prerequisite: CASL 101

This course is designed for hearing students with some basic knowledge of ASL who wish to acquire the necessary vocabulary and grammatical structures to conduct basic conversations in American Sign Language (ASL). Quantifiers and classifiers are covered, as are tense and number indicators. Verb inflections and adverb modulations are also explained. By the end of this course, students should know around 1000 signs. Students with restricted dexterity may find this course challenging.

39.0 Hours

Fee: \$638.84

☆ CASL 301 Intermediate American Sign Language I

Prerequisite: CASL 201

This course is for hearing students with good knowledge of ASL wishing to develop their use of signed vocabulary and complex grammatical structures. The use of quantifiers is emphasized in describing objects and providing location. Verb inflections and adverb modulations are covered. By the end of this course, students should know 1500 signs and be able to conduct conversations involving several people, expressing emotions and feelings. Students with restricted dexterity may find this course challenging.

39.0 Hours

Fee: \$638.84

☆ CASL 401 Intermediate American Sign Language II

Prerequisite: CASL 301

This course is for hearing students with good knowledge of ASL wishing to develop their use of specialized vocabulary. Students work on acquiring new vocabulary based on their professional or personal interests. By the end of this course, students should know 2000 signs and be able to conduct conversations involving several people, expressing emotions and feelings, in a variety of everyday and professional situations. Students with restricted dexterity may find this course challenging.

39.0 Hours

Fee: \$638.84

Arabic

☆ CARB 101 Introductory Arabic I

Department Consent Required;

Prerequisite: Placement test required

This course is designed to help students with no knowledge of Arabic to begin developing functional communication abilities in all four language skills in 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.

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

39.0 Hours

Fee: \$634.44

☆ CARB 201 Introductory Arabic II

Prerequisite: CARB 101 or placement test required

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 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.

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

39.0 Hours

Fee: \$634.44

☆ CARB 301 Intermediate Arabic I

Prerequisite: CARB 201 or placement test required

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 Modern Standard Arabic. 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, general knowledge, geography, history, society and literature.

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

39.0 Hours

Fee: \$634.44

☆ CARB 401 Intermediate Arabic II

Prerequisite: CARB 301 or placement test required

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 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 and will also be able to talk about a variety of subjects related to culture, civilization, geography, history and literature.

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

39.0 Hours

Fee: \$634.44

☆ CARB 501 Advanced Arabic I

Prerequisite: CARB 401 or placement test required

This course focuses on developing students' linguistic, communicative and intercultural skills in Modern Standard Arabic. Through a selection of short stories and excerpts from contemporary literary works, students develop advanced reading, writing, oral and listening skills. Cultural topics in this course include social issues dealing with identities, immigration, diasporic communities, gender relations, environment, and marriage, among others.

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

39.0 Hours

Fee: \$634.44

☆ CARB 601 Advanced Arabic II

Prerequisite: CARB 501 or placement test required

This course focuses on further developing students' linguistic, communicative, intercultural and critical skills in Modern Standard Arabic. Through a selection of authentic material and literary texts, students continue to develop advanced reading, writing, oral and listening skills. Cultural topics in this course include contemporary national, international and global issues such as immigration, travel, national and religious celebrations, media and press, higher education and global requirements.

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

39.0 Hours

Fee: \$634.44

Chinese

☆ CCHN 101 Introductory Chinese I

*Prerequisite: Placement test required ;
Antirequisite: MDN 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.

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

39.0 Hours

Fee: \$635.13

☆ CCHN 201 Introductory Chinese II

*Prerequisites: CCHN 101 or placement test ;
Antirequisite: MDN 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.

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

39.0 Hours

Fee: \$635.13

☆ CCHN 301 Intermediate Chinese I

*Prerequisite: CCHN 201 or placement test required ;
Antirequisite: MDN 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.

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

39.0 Hours

Fee: \$635.13

☆ CCHN 401 Intermediate Chinese II

Prerequisite: CHN 301 or placement test required

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.

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

39.0 Hours

Fee: \$635.13

Communication

★ CCMN 114 Short Management Reports

This writing intensive workshop course helps students gain the proficiency needed to meet the reporting demands of the contemporary workplace. Participants will learn to analyze their audience and purpose while writing informative and persuasive documents such as instructional reports, personnel reports, informal proposals, and analytical reports. A module on planning, delivering professionally related oral presentations to peers, management and industry partners completes this workshop course.

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

39.0 Hours

Fee: \$581.99

★ CCMN 279 Introduction to Professional Communication

Antirequisites: CCMN 124, CCMN 201

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.

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

39.0 Hours

Fee: \$576.94

★ CCMN 304 Career Advancement Communication

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.

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

39.0 Hours

Fee: \$586.10

★ CCMN 313 Organizational Report Writing

Prerequisite: CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 207 or CMN 210 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry.

Organizational 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 to propose solutions to an identifiable problem, 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.

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

39.0 Hours

Fee: \$586.10

★ CCMN 314 Professional Presentations

Prerequisites: CMN 100 or CCMN 124 or CMN 200 or CCMN 201 or CMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

Successful professionals achieve their objectives by consistently designing and delivering meaningful presentations to diverse, demanding audiences. 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 enrol in this course without the required prerequisites. For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website

39.0 Hours

Fee: \$586.10

★ CCMN 315 Issues in Organizational Communication

Prerequisites: CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 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 enrol in this course without the required prerequisites. For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website

39.0 Hours

Fee: \$586.10

★ CCMN 413 Corporate Communications

Prerequisite: CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 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.

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

39.0 Hours

Fee: \$586.10

★ CCMN 414 Interpersonal Communication in Manage-

ment

Prerequisite: CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 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.

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

39.0 Hours

Fee: \$586.10

★ CCMN 432 Communication in the Engineering Professions

Communication lies at the heart of the engineering professions. This course introduces students to the unique and varied communication challenges of their discipline. Through a combination of lectures, workshops, readings, and online simulations, 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

56.0 Hours

Fee: \$586.10

★ CCMN 443 Contemporary Intercultural Communication

Prerequisite: CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 207 or CCMN 279 or CCMN 300 or CCMN 373 or Direct Entry

In today's global environment, the success of almost any venture requires an understanding of intercultural issues. In this course various communication strategies and theories are analyzed in cultural context. Students learn how to overcome cultural barriers and engage in cross-cultural situations.

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

39.0 Hours

Fee: \$586.10

★ CCMN 447 Communication and Law

Prerequisite: CLAW 122 and (CMN 100 or CCMN 114 or CCMN 124 or CMN 200 or CCMN 201 or CMN 207 or CCMN 279 or CCMN 300 or CCMN 373)

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 enrol in this course without the required prerequisites. For a sample course outline for classroom delivery, consult the Ryerson University School of Professional Communication website

39.0 Hours

Fee: \$586.10

🌀 CDCM 125 Disaster and Emergency Incident Communications

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.

39.0 Hours

Fee: \$731.73

🌀 CDCM 415 Promotional Communications

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.

39.0 Hours

Fee: \$731.73

CDCM 999 Business Communication Intensive

This intensive program develops key skills, strategies, and theories to support operational functioning and career advancement in professional environments. Courses focus on traditional and emerging media to build and integrate writing, analytical and research skills; organize and plan to produce correspondence and reports that make your point and achieve your purpose; interact effectively within small groups, becoming sensitive to diversity, culture and international issues; and plan oral presentations to be delivered with confidence.

312.0 Hours

Fee: \$4675.53

French

☆ CFRE 101 Introductory French I

Prerequisite: Placement test required

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. An online placement test is required.

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

39.0 Hours

Fee: \$514.10

☆ CFRE 201 Introductory French II

Prerequisite: CFRE 101 or placement test required

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. An online placement test is required.

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

39.0 Hours

Fee: \$514.10

☆ CFRE 301 Intermediate French I

Prerequisite: CFRE 201 or placement test required

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. An online placement test is required.

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

39.0 Hours

Fee: \$514.10

☆ CFRE 401 Intermediate French II

Prerequisite: CFRE 301 or FRE 302 or placement test required

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.

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

39.0 Hours

Fee: \$514.10

★ CFRE 402 French Conversation and Pronunciation

Prerequisite: CFRE 301 or FRE 302 or CFRE 401 or placement test required

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.

If a student has completed, or is currently taking, one of the following courses while enrolled in CFRE 402 - CFRE 301, CFRE 401, or CFRE 501 - , an interview/placement assessment is not required. Otherwise, the student must take an interview/placement assessment before enrolling in this course.

39.0 Hours

Fee: \$514.10

☆ CFRE 501 Speaking and Writing French I

Prerequisite: CFRE 401 or CFRE 402 or placement test required

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.

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

39.0 Hours

Fee: \$508.88

★ CFRE 502 Communication and Business French

Prerequisite: CFRE 515 or placement test required .

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.

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.

39.0 Hours

Fee: \$501.59

☆ CFRE 507 English-French Translation I

Prerequisite: CFRE 601 or placement test required

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.

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.

39.0 Hours

Fee: \$501.59

🌀 CFRE 510 Effective Writing

Prerequisite: CFRE 601 or placement test required

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.

39.0 Hours

Fee: \$501.59

★ CFRE 515 Introduction to Business French

Prerequisite: CFRE 601 or placement test required. Not available to native speakers of French

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 video clips from business news. The language of instruction is French. This course is not open to native French speakers.

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

39.0 Hours

Fee: \$501.59

🌀 CFRE 601 Speaking and Writing French II

Prerequisite: CFRE 501 or placement test required

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.

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

39.0 Hours

Fee: \$501.59

★ CFRE 602 Business French in Practice

Prerequisite: CFRE 515 or placement test required

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.

CFRE 602, CFRE 607, and CFRE 707 can be taken in the same term.

39.0 Hours

Fee: \$501.59

🌀 CFRE 605 Francophone Language and Culture

*Prerequisite: CFRE 601 or placement test required ;
Antirequisite: FRS 606*

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.

39.0 Hours

Fee: \$501.59

🌀 CFRE 607 English-French Translation II

Prerequisite: CFRE 601 or placement test required

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.

CFRE 607, CFRE 602, and CFRE 707 can be taken in the same term.

39.0 Hours

Fee: \$501.59

🌀 CFRE 610 Cultural Context of Writing

Prerequisite: CFRE 601 or placement test required

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.

39.0 Hours

Fee: \$501.59

🌀 CFRE 701 French for Today

Prerequisite: CFRE 601 or placement test required

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.

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

39.0 Hours

Fee: \$501.59

☉ CFRE 707 Introduction to French-English Translation

Prerequisite: CFRE 601 or placement test required

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.

CFRE 707, CFRE 602, and CFRE 607 can be taken in the same term.

39.0 Hours

Fee: \$516.19

☉ CFRE 801 French and New Media

Prerequisite: CFRE 601 or placement test required

This advanced language course is designed to improve significantly students' skills through the analysis of contemporary issues in the Francophonie using new media. 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. Students write short essays and work on a new media-related project.

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

39.0 Hours

Fee: \$514.10

Language

☆ CLNG 111 Language and Identity

Antirequisite: LNG 100

This writing-intensive course for ESL 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. Enrolment subject to the online placement, English Proficiency, or Writing Skills Test results.

39.0 Hours

Fee: \$635.13

☆ CLNG 112 Spoken and Written Language

Antirequisite: LNG 300

This writing course for ESL students introduces them to critical thinking about oral and written 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. Enrolment subject to the online placement, English Proficiency, or Writing Skills Test results.

39.0 Hours

Fee: \$635.13

☆ CLNG 113 Language and Public Life

Antirequisite: LNG 200

This writing course for ESL 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. Enrolment subject to the online placement, English Proficiency, or Writing Skills Test results.

39.0 Hours

Fee: \$635.13

Spanish

☆ CSPN 101 Introductory Spanish I

Prerequisite: Placement test required

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 on line placement test is required.

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).

39.0 Hours

Fee: \$523.50

⊕ CSPN 201 Introductory Spanish II

Prerequisite: CSPN 101 or placement test required

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 on line placement test is required.

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).

39.0 Hours

Fee: \$514.10

⊕ CSPN 301 Intermediate Spanish I

Prerequisite: CSPN 201 or placement test required

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.

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).

39.0 Hours

Fee: \$514.10

⊕ CSPN 401 Intermediate Spanish II

Prerequisite: CSPN 301 or placement test required

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.

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).

39.0 Hours

Fee: \$514.10

★ CSPN 402 Spanish Conversation and Pronunciation

Prerequisite: CSPN 301 or CSPN 401 or placement test required

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.

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

39.0 Hours

Fee: \$632.01

⊕ CSPN 501 Advanced Spanish I

Prerequisite: CSPN 401 or placement test required

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.

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).

39.0 Hours

Fee: \$508.88

NEW!

☆ CSPN 507 English-Spanish Translation I

Prerequisite: CSPN 601 or placement test required

Students at this level are well-acquainted with most of the rules of Spanish grammar. This course concentrates on furthering this knowledge through the development of English to Spanish translation techniques. Through numerous exercises, students learn to express the same concepts naturally in the target language, without undue interference from the source language.

39.0 Hours

Fee: \$514.10

★ CSPN 515 Introduction to Business Spanish

Prerequisite: CSPN 601 or placement test required

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.

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

39.0 Hours

Fee: \$501.59

🌀 CSPN 601 Advanced Spanish II

Prerequisite: CSPN 501 or placement test required

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.

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).

39.0 Hours

Fee: \$514.10

NEW!

☆ CSPN 607 English-Spanish Translation II

Pre-requisites: CSPN 601 or CSPN 507 or Placement test required

Students at this level are well-acquainted with all of the rules of Spanish grammar. This course concentrates on making use of this knowledge through the development of a sound English-to-Spanish translation methodology. Through exercises, student 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.

39.0 Hours

Fee: \$514.10

★ CSPN 702 Communication in Business Spanish

Prerequisite: CSPN 515 or placement test required

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.

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

39.0 Hours

Fee: \$516.19

🌀 CSPN 704 Latin American Culture I

Prerequisite: CSPN 601 or CSPN 804 or placement test required

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 M´rquez 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.

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

39.0 Hours

Fee: \$516.19

★ CSPN 707 Spanish-English Translation

Prerequisite: CSPN 601 or SPN 507 or placement test required

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.

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

39.0 Hours

Fee: \$516.19

NEW!

☆ CSPN 805 Spanish Language Teaching Methodologies

Prerequisite CSPN601 or placement test required

In this course students learn important aspects of teaching methodology and techniques. Opportunities for observation of Spanish classes and peer teaching exercises will be provided so students can apply the techniques learned in the classroom. As part of this course, students will prepare didactic activities and a teaching portfolio. Final assignments also include lesson planning and the evaluation of teaching performance through the demonstration of teaching in a real classroom environment.

39.0 Hours

Fee: \$514.10

Workplace Communication in Canada (WCC)

✦ CDCE 400 Exploring Leadership Skills

Department Consent Required

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

30.0 Hours

Fee: \$500.34

❖ CDCE 740 Teamwork Communication

Department Consent Required

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.

39.0 Hours

Fee: \$695.00

CDCE 855 Wrkplace Comm for IT Professionals

Developing effective communication skills for the Canadian workplace is important for internationally educated IT professionals; it enables them to establish better working relationships with their co-workers and clients. Students will learn and practice how to negotiate and influence others, work in diverse teams, deliver presentations, etc. They will learn how to express ideas clearly and sensitively to avoid misunderstandings, while creating a more satisfying work environment for themselves and others.

150.0 Hours

Fee: \$565.00

CDCE 955 Wrkplace Comm for Fin Serv Pros

Developing effective communication skills for the Canadian workplace is important for internationally educated Financial Services professionals; it enables them to establish better working relationships with their co-workers and clients. Students will learn and practice how to negotiate and influence others, work in diverse teams, deliver presentations, etc. They will learn how to express ideas clearly and sensitively to avoid misunderstandings, while creating a more satisfying work environment for themselves and others.

35.0 Hours

Fee: \$565.00

COMMUNITY WELL-BEING AND SAFETY

Child and Youth Care

★ CCYC 905 An Indigenous Perspective on CYC

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.

39.0 Hours

Fee: \$586.10

Disability Studies

★ CDST 504 Mad People's History

Antirequisite: CDST 500

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.

39.0 Hours

Fee: \$586.10

★ CDST 506 Principles and Practices of Accessibility

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.

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

39.0 Hours

Fee: \$586.10

🔄 CVDS 200 AODA Capstone Synthesis

Department Consent Required

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.

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 enrolment.

39.0 Hours

Fee: \$630.44

Disaster Emergency Management

CKDM 160 Emerging Issues

Department Consent Required

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.

This is a project-based, independent study course.

39.0 Hours

Fee: \$879.59

CKDM 999 Disaster and Emergency Fast Track

This intensive program offers students a fast track to completion of the Certificate in Disaster and Emergency Management. Participants will complete all six courses required to earn the certificate.

To gain access to priority enrolment, students should register in the certificate program in advance of the priority enrolment period. For further information, contact Academic Coordinator Alex Ferworm at afeworn@ryerson.ca.

234.0 Hours

Fee: \$4,750.89

★ CSCI 230 Emergency Management Practice

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.

39.0 Hours

Fee: \$774.26

★ CSCI 232 Incident and Operations Management

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.

39.0 Hours

Fee: \$774.26

★ CSCI 234 Analysis of Critical Incidents

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.

39.0 Hours

Fee: \$774.26

★ CSCI 241 Planning for Emergency Management

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.

39.0 Hours

Fee: \$774.26

★ CSCI 243 Continuity and Risk Management

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.

39.0 Hours

Fee: \$774.26

Early Childhood Studies

☆ CCLD 307 Cognitive Development

Prerequisites: (CLD 103 and CPSY 102) or Direct Entry or in Language and Intercultural Relations Program

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.

39.0 Hours

Fee: \$581.93

☆ CCLD 314 Literacy in the Early Years

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

☆ CCLD 315 Creative Arts II

Prerequisite: CLD 215 or Direct Entry

This course focuses on critical and reflective approaches to developing music, movement, and drama learning opportunities for young children in a context of equity, diversity, and inclusion. The course takes a hands-on, inquiry-based, experiential approach to creative arts, with the expectation that students will engage in learning as a creative exploration of lived experience in relation to the creative arts.

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

39.0 Hours

Fee: \$581.93

☆ CCLD 317 Concept Development in Math

Prerequisite: 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.

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

39.0 Hours

Fee: \$581.93

☆ CCLD 322 Research I: Methods

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

☆ CCLD 323 Research II: Applications

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

☆ CCLD 332 Families in Canadian Context II

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.

39.0 Hours

Fee: \$581.93

☆ CCLD 342 Assessment for Programming

Prerequisite: CLD 241 or Direct Entry or enrolled in Disability Studies

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.

A prerequisite may be waived if the student has specific professional experience. Students pursuing the Early Childhood Mental Health and Well-Being course series who do not have the prerequisite and who wish to take this course may apply for Department Consent.

39.0 Hours

Fee: \$581.93

☆ CCLD 363 Field Education III

Prerequisites: (CLD 241 and CLD 262) or Direct Entry;
Corequisite: CCLD 342

Students continue to apply their knowledge and skills with children who may have identified disabilities, or for whom the program requires accommodations and/or modifications. Placements include settings with a focus on inclusive practice, such as the Ryerson Early Learning Centre, Gerrard Resource Centre, primary classrooms and specialized programs. Weekly seminars support the placement experience. Discussions focus on inclusive practice, planning and implementing responsive learning activities, developing supportive relationships, and collaboration with the educator team. This course is graded on a pass/fail basis.

Placements are available in fall, winter, and spring/summer terms. For scheduling information, visit www.ryerson.ca/ecs/student-resources/undergraduate/field-education/third-year-field-placement-part-time-program/. Students must attend a mandatory information session and obtain permission of the School of Early Childhood Studies. The School will enrol 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. For specific information regarding the distance option requirements, visit www.ryerson.ca/ecs/student-resources/undergraduate/field-education/distance-field-placement-part-time-program/.

78.0 Hours

Fee: \$586.10

☆ CCLD 415 Concept Development in Science

Prerequisite: 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.

39.0 Hours

Fee: \$586.10

☆ CCLD 419 Children and Technology

Prerequisite: CLD 212 or Direct Entry

This course explores forms of knowledge media in children's lives and learning environments. Students will critically examine the use and misuse of digital technologies in teaching and learning, develop a working knowledge of online learning technologies, and acquire techniques for assessing various forms of knowledge media intended for early-years educators and children from infancy to age eight. The course will engage students in rethinking technology in relation to teaching and learning with young children.

Enrolment 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.

39.0 Hours

Fee: \$586.10

☆ CCLD 420 Children and Nature

Prerequisite: 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.

39.0 Hours

Fee: \$585.81

☆ CCLD 442 Infant Mental Health

Prerequisites: (CLD 231 and CCLD 342) or (Direct Entry and CCLD 342)

This course builds on previous child development courses for a detailed examination of the development of infants and toddlers. Students explore applications of developmental theory to identify and assess infants and toddlers, including those who may benefit from early intervention. Family empowerment intervention models are studied for all families with infants and toddlers. Cultural and economic contexts are stressed to assure responsiveness to diverse family models.

39.0 Hours

Fee: \$586.10

☆ CCLD 444 Therapies for Young Children

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

★ CCLD 445 Inclusion and Consultation

Prerequisite: CCLD 342 or enrolled in Disability Studies

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

39.0 Hours

Fee: \$586.10

☆ CCLD 446 Children and Chronic Illness

Prerequisites: CCLD 342 or CYC 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.

39.0 Hours

Fee: \$616.36

☆ CCLD 448 Childhood in a Global Context

Antirequisite: 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.

39.0 Hours

Fee: \$616.36

★ CCLD 450 Indigenous Early Learning

Students are introduced to Indigenous Peoples in Canada, beginning with the diversity, strengths and worldviews within these groups. Canada's history and legacy of the colonization of Indigenous Peoples is examined. Students are asked to be reflexive, sharing their understandings of the materials to which they are exposed. Ways of supporting all children, within the contexts of their families and communities, to grow in a place of respect, unity, and understanding will be explored.

39.0 Hours

Fee: \$616.36

☆ CCLD 454 Policy in ECEC

This course introduces students to the development of social policy in Canada with a particular focus on the care and education of young children. The roles of federal, provincial and municipal governments, advocacy, social movements, as well as the sociopolitical and economic context are explored in reference to policy successes/failures. This course challenges students to connect their micro-level experiences as students of early childhood studies to the broader macro social and political context of which they are a part.

39.0 Hours

Fee: \$586.10

☆ CCLD 464 Senior Internship

Prerequisite: CCLD 363

In their final field education course, students take initiative to find an internship which emphasizes their ongoing professional learning and prepares them for future employment and/or further academic studies. This may include field and/or research experiences in a broad range of geographic locations such as local, provincial, national and international sites. The weekly seminar component of the course supports the students' internship experience. This course is graded on a pass/fail basis.

Note: Placements are available in fall, winter, and spring/summer terms. For scheduling information, visit www.ryerson.ca/ecs/student-resources/undergraduate/field-education/fourth-year-field-placement-part-time-program/. Students must attend a mandatory information session and obtain permission of the School of Early Childhood Studies. The School will enrol 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. For specific information regarding the distance option requirements, visit www.ryerson.ca/ecs/student-resources/undergraduate/field-education/distance-field-placement-part-time-program/.

78.0 Hours

Fee: \$586.10

Family Studies

☆ CFNF 400 The Social Context of Human Sexuality

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.

39.0 Hours

Fee: \$586.10

Family Supports

★ CVFS 401 Contemporary Family Issues

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.

39.0 Hours

Fee: \$586.10

★ CVFS 403 Family Supports Theory and Practice

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.

39.0 Hours

Fee: \$586.10

★ CVFS 406 Guiding Children's Development

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.

39.0 Hours

Fee: \$586.10

★ CVFS 408 Practicum/Project

Prerequisites: CVFS 401, CVFS 403, and VFS 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.

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

39.0 Hours

Fee: \$586.10

Food Security

★ CFNY 400 Selected Topics in Food Security

Prerequisite: CFNY 403

Course theme will vary. Topics will include sustainable food production, income security and food security, and case studies in food security.

Students should contact the Academic Coordinator, Reg Noble at ood@ryerson.ca as early as possible before enrolling in the course to allow time for an independent program of study to be organized.

39.0 Hours

Fee: \$581.93

★ CFNY 403 Food Security Concepts and Principles

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.

39.0 Hours

Fee: \$581.93

★ CFNY 404 Food Policy and Programs for Food Security

Antirequisite: CFNP 250

This course explores the development and analysis of food-related policy instruments and responses. Basic food economic concepts are introduced. Global as well as local issue in food production, processing, distribution, and consumption are explored. Topics include food prices and food policy analysis; agricultural subsidies; international trade; and food interventions. Students will also develop an understanding of the overall effect of income, policies, markets and prices as they affect food security.

39.0 Hours

Fee: \$581.93

★ CFNY 405 Applied Research Methods and Evaluation

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

★ CFNY 407 Community Development and Food Security

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

★ CFNY 408 Urban Food Security

Prerequisite: 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.

39.0 Hours

Fee: \$581.93

★ CFNY 409 Gender and Food Security

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.

39.0 Hours

Fee: \$581.93

★ CFNY 510 Indigenous Food Systems in Canada

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.

39.0 Hours

Fee: \$581.75

🌐 CVFN 410 Understanding Urban Agriculture

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.

This course has been developed in partnership with the RUAF Foundation in the Netherlands. 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.

39.0 Hours

Fee: \$643.51

🌐 CVFN 411 Dimensions of Urban Agriculture

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.

This course has been developed in partnership with the RUAF Foundation in the Netherlands. 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.

39.0 Hours

Fee: \$643.51

🌐 CVFN 412 Urban Agriculture Types

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.

This course has been developed in partnership with the RUAF Foundation in the Netherlands. 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.

39.0 Hours

Fee: \$643.51

🌐 CVFN 413 Urban Agriculture Policy-Making

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.

This course has been developed in partnership with the RUAF Foundation in the Netherlands. 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.

39.0 Hours

Fee: \$643.51

Interdisciplinary Studies

★ CINT 555 Special Topics in Interdisciplinary Studies

This course gives students the opportunity to examine a particular set of social issues from a range of disciplinary perspectives. With the aid of this interdisciplinary approach, students come to appreciate how findings from different methods of social enquiry can be combined to produce fresh insights and new models of practice. The particular theme, topic and structure of the course will vary in response to current social trends and student interest.

39.0 Hours

Fee: \$586.10

★ CINT 900 Program Planning and Evaluation Strategies

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.)

39.0 Hours

Fee: \$586.10

★ CINT 901 Gerontology: Critical Issues and Future Trends

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.)

39.0 Hours

Fee: \$586.10

★ CINT 902 Disability Issues

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.)

39.0 Hours

Fee: \$581.93

★ CINT 904 Health Promotion and Community Development

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.)

39.0 Hours

Fee: \$586.10

★ CINT 905 Conflict Resolution in Community Services

Antirequisites: CINT 914 and SWP 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.)

This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 906 Sexuality: Power and Pleasure

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.)

39.0 Hours

Fee: \$581.93

★ CINT 907 Team Work for Community Services

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.)

This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39.0 Hours

Fee: \$581.93

★ CINT 908 Homelessness in Canadian Society

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.)

39.0 Hours

Fee: \$586.10

★ CINT 910 First Nations Issues

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.)

This course will run during the Fall and Winter breaks.

39.0 Hours

Fee: \$586.10

★ CINT 911 International Community Development

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 under-development 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.)

39.0 Hours

Fee: \$586.10

★ CINT 913 Issues of Migration

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.

This course is part of the Immigration and Settlement Studies Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 914 Settlement Experiences

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.

This course is part of the Immigration and Settlement Studies Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 915 Responses to Migration

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.

This course is part of the Immigration and Settlement Studies Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 916 Introduction to Fundraising

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.

39.0 Hours

Fee: \$586.10

★ CINT 917 Interprof. Ed. for Community Development

When citizens become involved in the development of their communities, the processes are distinct from state or private led development. Participatory and community-centered development requires planning, organizing and power sharing across community and professional groups. In this course, learners will be introduced to an Interprofessional Education (IPE) process for Community Development. In an IPE process, learners navigate varying professional and disciplinary perspectives, complexities of shared decision-making, implicit and explicit power dynamics and reflect on group process.

39.0 Hours

Fee: \$586.10

★ CINT 920 Community Collaborations

This interdisciplinary course will assist students and practitioners in developing knowledge and skills required in multi-sectoral community collaborations. The course provides an overview of collaboration while reviewing common factors influencing success. Collaborative processes will be examined including: community engagement and mobilization, strategic planning and implementation, governance, leadership, communications, and evaluation. Examples of community collaborations, community hubs, community development projects and urban collectives that improve outcomes for children and youth through to older adults are explored.

This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 921 Writing for Disability Activism

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.

This course is part of the Interdisciplinary Conflict Resolution and Team Building Course Series.

39.0 Hours

Fee: \$586.10

★ CINT 922 Intro to Aboriginal Worldviews

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.

39.0 Hours

Fee: \$585.81

★ CINT 923 Canada's Story: An Aboriginal Perspective

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.

39.0 Hours

Fee: \$585.81

NEW!

★ CINT 930 Aging: From Cells to Society

This course examines and critiques issues and concepts associated with aging and older adults from the individual/physiological and the social/structural perspective. Topics include the physical and cognitive changes with aging, along with issues related to diversity, social support, aging-in-place, leisure, work and retirement, healthcare and technology. Through interdisciplinary course discussions and analysis of case studies, students will develop their knowledge and build capacity to respond to the needs of an aging population.

39.0 Hours

Fee: \$586.10

NEW!

★ CINT 935 Ethical/Legal Frameworks in Aging

Demographic changes mean that most disciplines and professions will work with older adults. This course introduces students to key ethical and legal aspects of working with older adults and how to manage them. Topics include the rights of older adults, informed consent, advance care planning, mental capacity, dementia, disability, and caregiving. Students will develop their capacities for navigating legal and ethical challenges in practice and to support and safeguard the rights of older adults.

39.0 Hours

Fee: \$586.10

NEW!

★ CINT 940 Mobilizing Research for Change

Across disciplines and professions there is an emphasis on evidence-informed practice and policy. Through an introduction to quantitative and qualitative research methods, this course develops students' skills for finding and critically analyzing research evidence to inform change. Students will identify a practice/policy issue of their own interests, find and appraise research evidence, and strategize to mobilize knowledge for change. Course discussions focus on aging and older adults, but the skills are transferable across disciplines.

39.0 Hours

Fee: \$586.10

NEW!

★ CINT 945 Technology and Aging Populations

This course investigates technology and aging. It examines the potential of technology to improve health and societal outcomes for aging populations. Course materials focus on technological innovation, design, access, and use patterns of older adults in relation to health and well-being, social inclusion, aging-in-place, caregiving, the workforce, leisure, and mobility. Students will mobilize theory and knowledge to analyze the potential of 21st century technologies to address challenges and further opportunities to support healthy aging and well-being.

39.0 Hours

Fee: \$586.10

NEW!

★ CINT 950 Practicum/Project in Gerontology

Department Consent Required

This course is designed to mobilize students' theoretical and substantive knowledge in aging and gerontology through an applied project. Students will work in a placement or on a project of interest to them in the field of aging/gerontology to gain experience in working with older adults and to support current or future career goals. Learning is facilitated through a variety of teaching modes, including sustained contact with the course instructor.

39.0 Hours

Fee: \$586.10

✦ CVIN 150 Advancing the Patient Experience

This course explores strategies to enhance the patient experience in the health care setting. Students will focus on developing and implementing patient experience projects and patient experience measurement and reporting tools. Skills unique to patient relations practitioner will also be developed including the concern resolution process, conflict management/resolution strategies, customer service coaching, and quality improvement and how it relates to improving the patient experience and contributes to relationship building in a health care setting.

39.0 Hours

Fee: \$655.99

Learning and Teaching

CILT 100 Learn and Teach in Higher Educ I

Department Consent Required

This seminar will introduce registrants to teaching and learning methods in higher education. Through critical analysis of research on higher education, as well as reflection upon one's own teaching experience, participants will engage in their own professional development. This seminar is designed for individuals with all levels of teaching experience who wish to further develop their teaching skills. Topics covered include active learning, inclusivity, information literacy, statements of teaching philosophy, and presentation skills.

This course is being offered through the Learning and Teaching Office in Spring 2020. It is only open to Ryerson graduate students who are enrolled in the Graduate Teaching Development Program (GTDP). If you would like more information about how to enrol in this course, please register for the GTDP: <https://goo.gl/forms/luzo5s4oKRIxP3i13> Additional questions can be directed to Curtis Maloley, Educational Developer in the Learning and Teaching Office, at cmaloley@ryerson.ca The schedule for Spring 2020 is Wednesday mornings (9:00 a.m. - 12:00 p.m.) from February 5, 2020 through March 18, 2020.

18.0 Hours

Fee: \$0.00

Occupational Health

★ COHS 208 Occupational Health and Safety Law

Antirequisite: 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.

COHS cannot be replaced by CMHR 711 as a course credit towards the Certificate in Occupational Health and Safety.

39.0 Hours

Fee: \$602.78

★ COHS 323 Accident Theory

Prerequisite: CPCS 106 or in OC006

Accident theory is foundational for all aspects of OHS management. Models are examined, drawing on disciplines such as psychology, epidemiology, engineering, ergonomics and organizational studies. Of particular importance is the distinction between root causes and behavioural causes. The importance of accounting for all possible categories of losses is emphasized. The aim is not to provide the "one best" model, but to analyze the strengths and weaknesses of each model and to assess their usefulness for various purposes.

Registered certificate program students without the course prerequisites may apply for consideration to enrol in this course without the required prerequisites.

39.0 Hours

Fee: \$591.31

★ COHS 477 Disability Management

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.

39.0 Hours

Fee: \$591.31

★ COHS 508 Occupational Health and Safety

This course introduces aspects of occupational health and safety that are of relevance to public health students. In the first half of the course, the nature of common occupational health hazards, their effects upon the human body and examples of common protective devices and measures are examined. In the second half of the course, a number of accident causation models are introduced as a foundation for occupational safety. Techniques of hazard recognition, evaluation and control are then examined.

39.0 Hours

Fee: \$595.48

★ COHS 516 Ergonomics

Prerequisites: (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 enrol in this course. Contact ce@ryerson.ca for more information.

39.0 Hours

Fee: \$581.93

★ COHS 523 Safety Evaluation Techniques

Prerequisites: CMTM 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.

Registered certificate program students without the course prerequisites may apply for consideration to enrol in this course without the required prerequisites.

39.0 Hours

Fee: \$581.93

★ COHS 608 Hazard Recognition and Control

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

This course is not open to ENVO, ENVS, or ENVC students.

39.0 Hours

Fee: \$602.78

★ COHS 623 Safety Control Methods

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.

52.0 Hours

Fee: \$766.59

★ COHS 718 Systems Management I

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.

39.0 Hours

Fee: \$586.10

★ COHS 723 Sectoral Applications I

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.

52.0 Hours

Fee: \$772.85

★ COHS 818 Systems Management II

Prerequisite: 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.

39.0 Hours

Fee: \$598.62

★ COHS 823 Sectoral Applications II

Prerequisite: 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.

52.0 Hours

Fee: \$772.85

★ COHS 833 Fire Safety Management

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.

39.0 Hours

Fee: \$586.10

NEW!

★ COHS 840 Leadership and Ethics

This course focuses on the management of occupational health and safety (OHS), with a particular focus on ethics, and the role of the OHS professional as a leader who influences the safety culture of an organization. The course will include discussion of leadership and leadership techniques within the context of OHS, management of OHS projects, professional ethics, enterprise risk management, and evidence-informed decision-making.

39.0 Hours

Fee: \$591.31

CVOH 100 BCRSP eModules

Department Consent Required

This e-learning, self-study program has been designed to support existing Canadian Registered Safety Professionals in demonstrating compliance with the new education eligibility criteria. This program of self-study focuses on a number of the "softer" skills (i.e., less OHS discipline-specific skills) involved in being an OHS professional.

19.5 Hours

Fee: \$0.00

❖ CVOH 110 Promote Frontline Worker Mental Health

Participants will learn about the stress response that front line workers in healthcare settings experience in caring for clients and families in traumatic events. Using game-based teaching methods, participants will learn the mental health continuum and skills for self-assessment including strategies for self-care to mitigate the impact of trauma on their wellbeing.

This offering is for both frontline workers and support staff as well as supervisors, managers or directors who support frontline workers.

12.0 Hours

Fee: \$125.00

❖ CVOH 115 Support Frontline Worker Mental Health

Managers, supervisors, and directors in healthcare settings will learn about employers' responsibilities to support the psychological health of frontline workers. Using Canadian Standard CSA-Z1003-13 Psychological Health and Safety in the Workplace as a base, we'll explore leading practices to manage the spectrum of good psychological health and safety in the workplace. Participants will be supported in developing a personalized action plan to use in their workplace.

9.0 Hours

Fee: \$115.00

★ CVOH 217 Measurement and Analysis

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.

39.0 Hours

Fee: \$598.62

★ CVOH 221 Topics in Occupational Health and Safety

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.

39.0 Hours

Fee: \$598.62

Social Work

☆ CSWP 538 Social Work Research: Part I

Prerequisites: All 3rd and 4th Semester Required Courses or Direct Entry

This course provides an introduction to quantitative social research epistemologies relevant to an anti-oppression practice framework. The course explores ethics, ownership, research for and with marginalized communities, inclusiveness and critical reflexivity while designing and conducting research. It critically examines steps in the quantitative research process. As a strategy to effect change, students will acquire the knowledge and skill to conduct quantitative research and to critically assess research articles in the literature from an anti-oppression framework. (SWP 538 and SWP 638 replace former equivalent course SWP 38A/B).

Students pursuing the Research Methodologies and Program Evaluation course series who do not have the prerequisite and who wish to take this course should contact Rose Reid, Program Coordinator, at rosereid@ryerson.ca for permission to take the course.

39.0 Hours

Fee: \$581.93

☆ CSWP 638 Social Work Research: Part II

Prerequisite: CSWP 538

Building on Part I, this course provides an introduction to qualitative research from critical, interpretive, anti-oppression and Indigenous peoples' perspectives. The course explores ethics, ownership, research for and with marginalized communities, inclusiveness and critical reflexivity while designing and conducting research. Students will acquire knowledge and skills to conduct qualitative research, program evaluations and community-based research as a strategy for effecting change. (SWP 538 and SWP 638 replace former equivalent course SWP 38A/B).

Students pursuing the Research Methodologies and Program Evaluation course series who do not have the prerequisite and who wish to take this course should contact Rose Reid, Program Coordinator, at rosereid@ryerson.ca for more information. A prerequisite may be waived if the student has specific professional experience.

39.0 Hours

Fee: \$581.93

★ CSWP 917 Special Topics I

Prerequisites: 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.

39.0 Hours

Fee: \$581.93

★ CSWP 925 Strong Helpers' Teachings

Ogitchita Luwatilahunyuni (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.

39.0 Hours

Fee: \$581.93

★ CSWP 933 Indigenous Health and Well Being

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.

39.0 Hours

Fee: \$586.10

★ CSWP 934 Community Engagement Foundations

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.

39.0 Hours

Fee: \$586.10

★ CSWP 935 Engaging Diverse Communities

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.

39.0 Hours

Fee: \$586.10

★ CSWP 936 Community Engagement Practices

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.

39.0 Hours

Fee: \$586.10

★ CSWP 937 Community Engagement Capstone

Department Consent Required

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.

Students are encouraged to contact the Academic Coordinator, Jennifer Ajandi, at jajandi@ryerson.ca to plan their capstone enrolment.

39.0 Hours

Fee: \$586.10

CVSW 15A Foundation of Social Work II-A

The first term of a 2 single-term course. Foundation of Social Work II-A

39.0 Hours

Fee: \$1158.21

★ CVSW 900 Foundations of Social Work

Department Consent Required

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 132 and SWP 331.)

This course is restricted to registered Certificate in Canadian Social Work Practice students in the IESW Bridging Program.

78.0 Hours

Fee: \$1364.44

❖ CVSW 932 Aboriginal Knowledges in Practice

Department Consent Required

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.

39.0 Hours

Fee: \$655.99

Accessibility Studies

❖ CVAS 100 Accessibility and Compliance Awareness

This course increases awareness about accessibility and inclusion for people with disabilities. Students will examine the barriers faced by people with disabilities, the relevant legislation, and the growing untapped market and spending power of customers with disabilities. Strategies will be shared for communicating with decision makers about the importance of inclusion, interacting with people with different disabilities with dignity and beginning to shape a work environment of compliance and possibilities for people with disabilities.

21.0 Hours

Fee: \$432.08

❖ CVAS 110 Accessibility Standards

This course is designed to provide you with an introduction to accessibility legislation throughout the world, including the Accessibility for Ontarians with Disabilities Act (AODA), the Accessible Canada Act, and international legislation from the United States, the United Kingdom, Australia, and New Zealand. It will examine the difference between standards based and accommodations based legislation throughout different jurisdictions and provide you with foundational knowledge to apply legislative requirements to practical situations

21.0 Hours

Fee: \$432.08

❖ CVAS 200 Introducing Digital Accessibility

Technological advancements present new opportunities in the digital world. However, some of these technologies can create barriers for people with disabilities. In this course, students will learn what digital accessibility is and why it is important to consider when creating content. We will look at the ethical, business, and legal aspects of digital accessibility; provide a review of the most common accessibility issues; and introduce some best practices for creating accessible digital content.

21.0 Hours

Fee: \$432.08

❖ CVAS 210 Recruitment, Training, and Employment

Meaningful and sustainable employment is a key factor in the wellbeing of people living with disabilities. This course is designed to advance that goal through an understanding of the recruitment, training, and employment process. By examining the historical and present barriers, relevant legislation, and the business case for hiring people with disabilities, you will develop tools to advance and support the employability of people with disabilities within your own scope of practice.

21.0 Hours

Fee: \$432.08

❖ CVAS 230 Public Spaces

This course increases awareness about accessibility and inclusion for people with disabilities in the built environment. You will examine the barriers faced by people with disabilities, the relevant legislation, and the opportunities they will gain when accessibility and inclusion are adopted universally. Strategies will be shared for communicating the need for change by organizations and supporting efforts for change to the built environment.

21.0 Hours

Fee: \$432.08

❖ CVAS 500 Field Experience: Capstone

This capstone course provides an opportunity to apply the knowledge and skills gained through previous Leadership in Accessibility and Inclusion courses to an accessibility-related project. You will work with an organization in a field experience placement to assess their accessibility related needs. By developing a corporate accessibility policy, an accessibility plan, or writing a grant application to remove barriers, this course will teach you how to incorporate the principles of accessibility and inclusion into an existing organizational culture.

21.0 Hours

Fee: \$432.08

International Studies

CVIS 100 Eng. Lang. and the Culture of Cda

This course focuses on English language skills: writing, listening, and speaking in academic and professional contexts at the entry-to-practice level. It will also focus on the intercultural nuances of being a registered nurse in Canada, including the values of multiculturalism and its implications for nursing as well as the nature of nursing relationships with patients, families, physicians, interprofessional teams, communities, and the larger healthcare system.

36.0 Hours

Fee: \$650.00

CVIS 110 Academic and Professional Writing

Students will develop writing skills for successful university level courses and for professional practice as a Registered Nurse (RN) in the Canadian context. This course will teach students library research skills; how to construct and write scholarly papers; and fundamentals of patient charting, electronic records, and client education materials. The course creates a link between scholarly writing and writing in the practice setting (i.e., readability, clarity of expression, and terminology).

36.0 Hours

Fee: \$650.00

CVIS 120 Ethical Practice

In this course, students will develop and demonstrate achievement of the College of Nurses of Ontario's entry-to-practice competencies. As such, students will have opportunities to develop and demonstrate competency in professional judgement and practice decisions by applying the ethical values and responsibilities in the College's standards for ethics and critical inquiry to inform clinical decision-making and establish therapeutic, caring, and culturally safe relationships with clients and the interprofessional healthcare team.

36.0 Hours

Fee: \$650.00

CVIS 140 Pro Responsibility and Accountability

In this course, students will learn and develop professional conduct in accordance with the College of Nurses of Ontario's standards for nursing practice and that the primary duty is to the client. Students will demonstrate an understanding of public protection and the duty to provide and improve healthcare services in collaboration with clients, member of the interprofessional healthcare team, stakeholders, and policy makers.

36.0 Hours

Fee: \$650.00

CVIS 160 Specialized Body of Knowledge

In this course, students will develop and demonstrate achievement of the College of Nurses of Ontario's entry-to-practice competencies, including the integration of nursing knowledge from the sciences, humanities, research, ethics, spirituality, relational practice, critical inquiry, and primary healthcare principles. Course concepts will draw on diverse sources of knowledge. Students will demonstrate relational practice; knowledge about growth and development; and health and safety across healthcare settings.

36.0 Hours

Fee: \$650.00

DESIGN AND ARCHITECTURE

Architectural Science

✦ CKAR 103 Architectural Studio - Fundamental

Prerequisite: KAR 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.

39.0 Hours

Fee: \$917.90

✦ CKAR 205 Building Codes and Regulations

Prerequisites: 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.

39.0 Hours

Fee: \$917.90

✦ CKAR 215 Computer-Aided Architectural Drawing

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.

39.0 Hours

Fee: \$917.90

✦ CKAR 300 Architectural Drawing

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.

39.0 Hours

Fee: \$917.90

✦ CKAR 310 Materials and Methods

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.

39.0 Hours

Fee: \$917.90

✦ CKAR 500 Sustainable Buildings

Prerequisites: 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.

39.0 Hours

Fee: \$917.90

✦ CKAR 601 Building Science for Architectural Preservation and Conservation

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.

39.0 Hours

Fee: \$917.90

✦ CKAR 785 Building Info Modelling (REVIT)

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.

39.0 Hours

Fee: \$917.90

✦ CKDA 611 Digital Architectural Rendering

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.

39.0 Hours

Fee: \$917.90

Design Management

★ CDDM 101 Introduction to Design Management

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.)

39.0 Hours

Fee: \$609.06

★ CDDM 102 Design Management II

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.)

39.0 Hours

Fee: \$609.06

✧ CDDM 103 Design Management Project

Department Consent Required

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.

39.0 Hours

Fee: \$691.07

CDDM 999 Design Management Intensive

The Design Management Intensive allows students to complete six of the eight courses required for the Design Management certificate over four months. In three core courses, delivered through lectures, workshops, and independent study, students learn the principles and best practices of design management. The courses are complemented by three electives offered in the same period. The program is well-suited to professionals seeking an accelerated transition to a management position in the creative industries.

234.0 Hours

Fee: \$4138.52

Interior Design

✧ CDID 150 Design Theory

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.

39.0 Hours

Fee: \$812.71

★ CDID 151 Interior Design I: Drafting

Prerequisite: 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.

39.0 Hours

Fee: \$598.62

★ CDID 152 Interior Design I: Space Planning

Prerequisite: CDID151

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.

39.0 Hours

Fee: \$598.62

✧ CDID 153 Interior Materials and Finishes

Prerequisite: 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.

39.0 Hours

Fee: \$740.56

★ CDID 155 Design Dynamics I: Portfolio 1

Prerequisite: CDID150

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.

39.0 Hours

Fee: \$598.62

✪ CDID 157 Kitchen and Bathroom Design

Prerequisite: 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

39.0 Hours

Fee: \$729.22

★ CDID 170 Drafting for Entertainment

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 CFPN 501 and CFPN 601. (Equivalent to one Professional elective from Table I, see Undergraduate Program Calendar.)

39.0 Hours

Fee: \$598.62

★ CDID 501 Lighting Fundamentals

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.)

39.0 Hours

Fee: \$812.50

★ CDID 503 Introduction to Lighting Design

Prerequisite: 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 Program Coordinator Ana Abreu at aabreu@ryerson.ca for consideration to enrol in this course without the required prerequisites.

39.0 Hours

Fee: \$812.50

★ CDID 504 Lighting Energy Management

Prerequisite: 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.

39.0 Hours

Fee: \$812.50

NEW!

✪ CDID 505 Lighting Photometric Software

In this professional practice course, lectures and interactive design challenges will be presented to allow for investigation into lighting photometric calculation software and other digital analysis tools. This course will teach the technical aspects of using AGI32 to generate lighting calculations and 3D visualizations while introducing AutoCAD as a basic computer-aided software to use as a reference for the lighting design approach.

39.0 Hours

Fee: \$812.50

★ CDID 550 Introduction to Daylighting Design

Prerequisites: 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.)

39.0 Hours

Fee: \$812.50

★ CDID 551 Advanced Lighting Design

Prerequisites: 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.

39.0 Hours

Fee: \$812.50

✦ CDID 552 Entertainment Lighting Design

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.

39.0 Hours

Fee: \$1028.14

✦ CDID 553 Lighting Design Practicum

Prerequisites: 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.

39.0 Hours

Fee: \$980.50

✦ CDID 554 Lighting Research Practicum

Prerequisites: 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.

39.0 Hours

Fee: \$1028.14

✦ CDID 801 Techniques in Watercolour

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

Fee: \$484.31

✦ CDID 803 Drawing Fundamentals

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.

36.0 Hours

Fee: \$662.37

CDID 999 Interior Design Intensive

This unique fast-track program covers all four required interior design courses plus three electives.

273.0 Hours

Fee: \$4547.55

★ CIRC 112 Introduction to Digital Communication

Introduction to Digital Communication introduces basic computer applications used in the interior design profession and allied creative disciplines. Students will execute standard computer aided design commands and operations while learning the procedural language that is required to analyze and critique design.

39.0 Hours

Fee: \$604.88

★ CIRC 113 Introduction to Visual Communication

Introduction to Visual Communication introduces students to visual communication using the foundations of orthographic drawing with manual drafting skills in addition to various media. These techniques support abstract and technical concepts as a means to think rigorously about communicating through drawing.

39.0 Hours

Fee: \$604.88

★ CIRH 101 History of Interior Design 1850 - Present

Prerequisite: IRH 202 or IRH 115

This course explores the history of domestic, commercial, and public interiors from the beginning of the Industrial Revolution to the present day. Students will explore interiors from the Victorian period, through early and mid-century modernist movements, to contemporary interiors around the world. This course emphasizes the many social, political, material, and technological influences that shape the interior.

A prerequisite may be waived if the student has specific professional experience. See the section on https://continuing.ryerson.ca/contentManagement.do?method=load&code=CM000112#0274_qs for more information. Registered certificate program students without the prerequisites wishing to take this course must contact Andrew Furman, Academic Coordinator, at adfurman@ryerson.ca for more information.

39.0 Hours

Fee: \$598.62

☆ CIRL 100 Intro to World Art I: Pictorial Arts

Not available to students in Architecture, Fashion, Image Arts, Interior Design or New Media programs.

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.

39.0 Hours

Fee: \$588.18

☆ CIRL 500 Modern and Contemporary Art, Design

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.

39.0 Hours

Fee: \$588.18

Landscape Design

🌀 CKLA 300 Landscape Design Communications and Theory

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.

This course is delivered in a lecture/studio format.

39.0 Hours

Fee: \$879.59

🌀 CKLA 310 Landscape Construction, Materials and Methods

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.

This course will run during the Fall break. Includes two Saturday or Sunday field sessions of three hours to visit landscape sites. Dates and times to be announced by the instructors.

39.0 Hours

Fee: \$879.59

🌀 CKLA 320 Plant Materials

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.

This course will run during the Winter break. Includes two Saturday or Sunday field sessions of three hours to visit landscape sites. Dates and times to be announced by the instructors.

39.0 Hours

Fee: \$879.59

🌀 CKLA 330 Landscape Design Studio

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.

This course will run during the Winter break.

39.0 Hours

Fee: \$879.59

✦ CKLA 400 Ecology and Sustainable Landscapes

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.

The on-campus session includes two Saturday or Sunday field sessions of three hours to visit landscape sites. Dates and times to be announced by the instructors.

39.0 Hours

Fee: \$879.59

✦ CKLA 420 Art and Management of Planting Design

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.

39.0 Hours

Fee: \$879.59

✦ CKLA 440 Landscape Design LANDWorksCAD PRO

Prerequisites: 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.

39.0 Hours

Fee: \$879.59

✦ CKLA 450 Landscape Restoration

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.

39.0 Hours

Fee: \$879.59

Toy Invention

NEW!

✦ CDTI 100 Principles of Toy Invention

The first course of the series is a deep dive into the toy world. Participants will learn the basic principles of toy invention, the history of toys and their cultural and educational value, the lifecycle of an invention and the different life stages of their target market: children. Lectures will be complemented by workshops to apply and field-test the acquired knowledge.

Department Consent is required for this course. Please contact Lorena Escandon, Academic Coordinator at lorena.escandon@ryerson.ca

36.0 Hours

Fee: \$1,227.80

NEW!

✦ CDTI 110 Toy Prototyping

This course will enable participants to practice the creative process by exposing them to different creative and prototyping techniques within the Creative Technology Lab and the FCAD Fabrication Lab. To help inventors find new sources of inspiration and strategies, participants will be exposed to a variety of creativity tools and methods, and introduced to basic digital modeling and construction drawings, material sourcing and specifications, woodworking, metalworking, and digital fabrication such as 3D printing and laser cutting.

36.0 Hours

Fee: \$1,427.80

NEW!

✦ CDTI 120 The Business Side of Toys - Talk Series

A crucial skill set for inventors to acquire is the business acumen needed to navigate a new industry. This course introduces participants into the business side of the toy invention industry, how to protect their intellectual property, licensing basics, how to brand and market a new toy, how to negotiate and deal with other toy companies and how to follow and adapt to new trends.

12.0 Hours

Fee: \$1,200.00

NEW!

✦ CDTI 130 Toy Lab

This toy lab capstone course will enable participants to apply everything they have learned throughout the series into two toy concepts in two different toy categories. Participants will define a new toy concept definition, build a series of prototypes to test in the field, and present their concepts in a demo day with representatives of local toy companies. Through this process, participants will be mentored by a team of specialists and industry professionals.

48.0 Hours

Fee: \$1,427.80

HEALTH AND SCIENCES

Biology

★ CBLG 10A Anatomy and Physiology-A

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. This course is not available for credit in the Bachelor of Science programs in Biology, Biomedical Science or Chemistry.

Note: Students must have taken Grade 12U Biology, OAC Biology, CBLG 90A/B, or CKBG 108 and CKBG 109, prior to taking this course. Students who may not have the co-requisites indicated are encouraged to contact the Academic Coordinator for Biology and Biomedical Science, Dr. Joseph McPhee, at jbmcphree@ryerson.ca. CBLG 10A is a multi-term course (78 total course hours). If you enrol in CBLG 10A for the selected term, you will automatically be enrolled in CBLG 10B for the subsequent term. The automatic enrolment usually occurs near the completion of "A" term, and therefore the "B" term will not appear on your schedule of classes until that time.

39.0 Hours

Fee: \$1,183.93

★ CBLG 10B Anatomy and Physiology-B

Prerequisite: BLG 10A;

Corequisites for Collaborative Nursing only: NSE 11B, NSE 12B, NSE 13B and NSE 112

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. Students who may not have the co-requisites indicated are encouraged to contact the Academic Coordinator for Biology and Biomedical Science, Dr. Joseph McPhee, at jbmcphree@ryerson.ca.

39.0 Hours

Fee: \$0

★ CBLG 143 Biology I

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: \$887.62

★ CBLG 144 Biology II

Prerequisite: 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: \$887.62

★ CBLG 151 Microbiology I

Prerequisite: 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.

78.0 Hours

Fee: \$1,174.55

☆ CBLG 181 Biology of a Living City

Antirequisites: 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.

39.0 Hours

Fee: \$620.50

☆ CBLG 311 Cell Biology

Prerequisite: 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.

39.0 Hours

Fee: \$620.50

☆ CBLG 400 Genetics

Prerequisite(s): CBLG 143 and CBLG 144

Structure, function and transmission of genes; chromosomal basis of inheritance; mono- and dihybrid crosses; sequential steps in gene function; linkage maps; sex chromosome inheritance, cytogenetics, genetic traits and inheritance as they relate to health care issues. Topics include normal and pathological cytology; the human genome project; gene mapping; linkage and therapy.

52.0 Hours

Fee: \$887.62

☆ CBLG 411 Cell Biology II

Prerequisites: CBLG 311

This course will focus on cell function and behaviour. The course will cover mechanisms of cell-cell adhesion and cell adhesion to the extracellular matrix, mechanisms of cellular communication and signal transduction, cell motility and morphology, regulation of the cell cycle, apoptosis and an introduction to cell differentiation. The laboratory component will complement basic cell structure concepts.

58.5 Hours

Fee: \$887.62

☆ CBLG 599 Biology Facts in Pop Media Sci-Fiction

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.

39.0 Hours

Fee: \$620.50

☆ CBLG 600 Physiology

Prerequisites: CBLG 143 and CBLG 144 and CBLG 311;
Antirequisite: BLG 601

A systematic approach to the function of the main physiological systems and their integration and interaction in the human body. Functions of the integumentary, immune, circulatory, skeletal, muscular, respiratory, nervous, endocrine, gastrointestinal, urinary and reproductive systems. The physiological consequences of disease, aging, exercise, and pregnancy are also considered.

39.0 Hours

Fee: \$620.50

☆ CBLG 605 Science and Government Policy Development

Prerequisite: CHY 142

All levels of government in Canada rely on a number of sources of scientific information in order to create, modify or update public policy. This course will examine the processes by which government seeks, collects and/or commissions scientific information and how government policy is influenced by scientific information. This course will examine case studies of specific government policies that shape and/or are shaped by scientific information and data collection.

39.0 Hours

Fee: \$620.50

☆ CBLG 606 Intro to Clinical Research and Trials

Prerequisite: CHY 142

Clinical trials are critical to demonstrate drug safety and efficacy. This course will examine the process of conducting clinical trials, including considerations for recruitment of patients, drafting of research protocols and informed consent forms, regulatory considerations, financial disclosure, and investigator recruitment. This course will also examine stakeholder roles and responsibilities including that of institutional review boards, investigators and regulatory bodies, including a discussion of specific case studies and examination of primary scientific data.

39.0 Hours

Fee: \$620.50

☆ CBLG 699 Social Factors in Drug Development

Antirequisites: CBLG 143, CBLG 144

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.

39.0 Hours

Fee: \$620.50

NEW!

CKBG 420 Trends in Cannabis Science

In this introductory course, students learn about the interaction between humans and cannabis. Selective alteration of cannabis genetics and agricultural determinants of the crop production, extraction of active ingredients, and formulation of novel delivery formats will be examined. Students will be introduced to the role of the physiological endocannabinoid system and learn about major cannabinoids - THC and CBD, minor cannabinoids, and terpenes. Trends in medicinal, wellness and recreational applications of cannabis will be discussed.

39.0 Hours

Fee: \$958.21

Biomedical Sciences

☆ CBMS 150 Introduction to the Human Genome

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.

39.0 Hours

Fee: \$620.50

Chemistry

★ CCHY 103 General Chemistry I

Antirequisite: CHY 102

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.

39.0 Hours

Fee: \$586.10

☆ CCHY 104 General Chemistry

This course is intended for Occupational and Public Health students. This course deals with stoichiometry, solution composition, redox reactions, kinetics, equilibrium including aqueous equilibria, acid, bases and salts, thermochemistry, chemical bonding and an introduction to organic chemistry (study of aliphatic and aromatic hydrocarbons).

58.5 Hours

Fee: \$865.25

☆ CCHY 152 Introductory Organic Chemistry

Prerequisite: CCHY 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.

39.0 Hours

Fee: \$586.10

☆ CCHY 183 Introduction to Forensic Sciences

Antirequisites: CBLG 143, CHY 102, CCHY 103, CCHY 104, CHY 123; Not available to Engineering students nor Faculty of Science students (with the exception of Computer Science, Financial Mathematics or Mathematics and its Applications students).

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).

39.0 Hours

Fee: \$586.10

★ CCHY 242 Organic Chemistry II

Prerequisite: 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.

39.0 Hours

Fee: \$586.10

☆ CCHY 583 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.

39.0 Hours

Fee: \$586.10

★ CKCH 107 General Chemistry Laboratory

Corequisite: 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.

Students are required to take CKCH 106 or CCHY 103 before or at the same time as CKCH 107. Attendance at labs is mandatory. Labs begin the first week of classes and students must be enrolled prior to the first day class. 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.

39.0 Hours

Fee: \$617.40

★ CKCH 113 General Chemistry II

Prerequisite: CKCH 106 or CCHY 103

This course builds on the topics introduced in CCHY 103. Emphasis is placed on modern atomic theory, including atomic structure, orbitals, shapes of molecules, bonding theories, intermolecular forces, and periodicity. Additional topics include thermodynamics, kinetics, electrochemistry, solids, and phase changes. Equivalent to the lecture portion of CHY 113.

39.0 Hours

Fee: \$605.92

★ CKCH 142 Organic Chemistry I

Prerequisites: (CCHY 103 or CKCH 106) and (CHY 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.

39.0 Hours

Fee: \$617.40

★ CKCH 143 Organic Chemistry Laboratory

Prerequisites: CKCH 107 or CHY 113;

Corequisite: 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.

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 and students must be enrolled prior to the first day class. 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.

39.0 Hours

Fee: \$629.91

★ CKCH 225 Biochemistry I

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

This course deals with the structure, function, and chemistry of the molecular building blocks of the cell. This includes a discussion of water and its properties, amino acids, proteins, nucleotides and nucleic acids, carbohydrates, and lipids. Also included is an introduction to enzyme function and kinetics. Equivalent to the lecture portion of BCH 261.

39.0 Hours

Fee: \$629.91

★ CKCH 227 Biochemistry Laboratory I

Corequisite: CKCH 225;

Prerequisites: (CKCH 142 and CKCH 143) or CHY 142

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 and students must be enrolled prior to the first day class. 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.

39.0 Hours

Fee: \$683.13

❖ CKIH 200 Science Mentorship

Department Consent Required

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.

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

30.0 Hours

Fee: \$0.00

Environmental Health

☆ CENH 222 Foundations of Aetiology

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.

65.0 Hours

Fee: \$934.58

Health Information Management

★ CHIM 300 Managing Health Information Services

Prerequisite: CHSM 301 or HSM 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.

39.0 Hours

Fee: \$598.62

★ CHIM 301 Healthcare Information Analysis

Prerequisite: 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.

39.0 Hours

Fee: \$598.62

☆ CHIM 302 Health Information Systems Management

Prerequisite: 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.

39.0 Hours

Fee: \$598.62

★ CHIM 303 Intro to Health Coding Classification

Prerequisite: CHSM 301

This course introduces and applies current ICD (International Statistical Classification of Diseases and Related Health Problems) standard classification systems that are used to catalogue and retrieve data in healthcare systems. Emphasis is on developing practical coding skills that maintain data quality. Students will also develop an understanding of how data collected under a variety of classification systems are linked to inform decision-making by policy-makers and managers.

Students who do not have the prerequisite and who wish to take this course are advised to contact the Academic Coordinator, Jim Tiessen, at jhtiessen@ryerson.ca to discuss options for entry.

39.0 Hours

Fee: \$598.62

★ CHIM 305 Introduction to Health Informatics

This course introduces how information technology is applied in healthcare services. Several concepts, including electronic health records (EHR), eHealth, “infrastructure” 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.

39.0 Hours

Fee: \$598.62

★ CHIM 306 Healthcare Interoperability

Prerequisites: 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.

39.0 Hours

Fee: \$598.62

★ CHIM 307 Human-Computer Interfaces in Healthcare

Prerequisites: 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.

39.0 Hours

Fee: \$598.62

★ CHIM 404 Introduction to Health Economics

This course introduces and applies fundamental economic principles to the health care field. Topics covered include the relevance of markets and incentives to healthcare policy and services, insurance, payment schemes and the economic evaluation of healthcare technologies.

39.0 Hours

Fee: \$586.10

☆ CHIM 406 Practicum Seminar

Department Consent Required

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.

39.0 Hours

Fee: \$586.10

☆ CHIM 407 Practicum

Department Consent Required

Students and faculty supervisors establish learning contracts detailing the terms and conditions of fieldwork placements. Subsequent Seminars provide an opportunity for students to apply theory and collectively share their experiences.

39.0 Hours

Fee: \$586.10

★ CHIM 408 Statistics for Health Services Managers

Antirequisites: CECN 329, CIND 123, CMTM 404, CMTM 480, PCS 623, CQMS 202, QMS 204, QMS 210, QMS 230, SOC 481

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.

39.0 Hours

Fee: \$586.10

Health Services Management

★ CHSM 301 The Healthcare Systems

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.

39.0 Hours

Fee: \$598.62

★ CHSM 305 The Management Cycle

Prerequisite: CHSM 301 or HSM 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.

39.0 Hours

Fee: \$598.62

★ CHSM 306 Management Leadership and Decision-Making

Prerequisites: CHSM 305

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.

39.0 Hours

Fee: \$598.62

★ CHSM 307 Principles of Long Term Care Service Del.

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.

39.0 Hours

Fee: \$595.48

★ CHSM 330 Managerial Epidemiology for Healthcare

Prerequisites: CHIM 408 or GMS 202 or GMS 210 or GMS 230

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.

39.0 Hours

Fee: \$598.62

★ CHSM 407 Healthcare Financial Management

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.

39.0 Hours

Fee: \$586.10

★ CHSM 408 Program Planning and Evaluation

Prerequisite: 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.

39.0 Hours

Fee: \$586.10

★ CHSM 417 Research Methodology

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.

39.0 Hours

Fee: \$586.10

☆ CHSM 418 Practicum Seminar

Department Consent Required

Students and faculty supervisors establish learning contracts detailing the terms and conditions of fieldwork placements. Subsequent Seminars provide an opportunity for students to apply theory and collectively share their experiences. This is a graded course.

39.0 Hours

Fee: \$586.10

☆ CHSM 419 Practicum

Department Consent Required

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.

39.0 Hours

Fee: \$586.10

★ CHSM 437 Human Resources Management in Healthcare

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.

39.0 Hours

Fee: \$586.10

Midwifery

★ CMWF 108 Aboriginal Childbearing

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.

39.0 Hours

Fee: \$600.70

Nursing

☆ CNCL 700 Nursing Practice I

*Prerequisites: CNUC 832, CNUR 600, CNUR 805, CPHL 302 and [(CNUR 850 and CNUR 860) or NUR 80A/B];
Corequisite: CNUR 810*

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. Prior to registration, you must be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing. Registration also requires submission through the Central Placement Office several months prior to actual enrolment date. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. See the Nursing website, ryerson.ca/ce/nursing, for further information.

208.0 Hours

Fee: \$1,195.41

☆ CNCL 800 Nursing Practice II

*Prerequisite: CNCL 700 and CNUR 810;
Corequisite: CNUR 820 or CNUR 823 or CNUR 824 or NUR 825 or NUR 826 or NUR 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. Prior to registration, you must be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing. Registration also requires submission through the Central Placement Office several months prior to actual enrolment date. The scheduling reflects the classroom-based instruction. In addition, students are required to participate in a mandatory weekly Internet component. See the Nursing website, ryerson.ca/ce/nursing, for further information.

208.0 Hours

Fee: \$1,195.41

☆ CNUC 832 Community Nursing

*Prerequisites: CNUR 816 and CNUR 830;
Corequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$604.88

☆ CNUR 600 Epidemiology: Major Health Problems

*Prerequisite: CNUR 850;
Corequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

★ CNUR 805 The Evolution of Theoretical Knowledge

Restriction: Available only to students enrolled in Full time Post-Diploma Nursing (NU004) or Part Time Post Diploma Nursing (NU008) or who have approval from the Daphne Cockwell School of Nursing

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

☆ CNUR 810 Concepts in Contemporary Nursing Practice

Prerequisites: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

☆ CNUR 816 Health Assessment

Restriction: Available only to students enrolled in Full time Post-Diploma Nursing (NU004) or Part Time Post Diploma Nursing (NU008) or who have approval from the Daphne Cockwell School of Nursing

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

52.0 Hours

Fee: \$797.89

☆ CNUR 820 Gerontological and Geriatric Nursing

*Prerequisites: (CNUC 832 and CNUR 805 and CNUR 816) or (NSE 32B and NSE 31B and NSE 407 and NSE 306);
Corequisite: NSE 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.

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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$586.10

★ CNUR 830 Current Issues and Future Perspectives

Restriction: Available only to students enrolled in Full time Post-Diploma Nursing (NU004) or Part Time Post Diploma Nursing (NU008) or who have approval from the Daphne Cockwell School of Nursing

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

★ CNUR 831 Leadership Development for Practice

Prerequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

★ CNUR 833 Organizational Context of Practice

Prerequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$598.62

★ CNUR 850 Research Methods

Corequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$586.10

☆ CNUR 860 Statistics and Nursing

Prerequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. You must also be formally admitted to the post diploma BScN degree through the Daphne Cockwell School of Nursing prior to enrolment 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$586.10

CVNU 113 Paediatric Health Assessment

Department Consent Required

This course is designed to broaden participants' knowledge and skills in the health assessment of infants, children, and adolescents. Learning is based upon foundational knowledge of growth and development, family, social determinants of health, and communication skills. Physical assessment techniques for body systems, pain, nutritional status, mental health, and psychosocial needs will be addressed across all paediatric developmental stages.

E-learning course activities include online discussions and case studies.

27.0 Hours

Fee: \$308.10

CVNU 114 Paediatric Health Assessment Workshop

Prerequisite: CVNU 113

This course is aimed at learners who have completed Paediatric Health Assessment (CVNU 113). Participants will synthesize, practice, and be observed while applying specific skills for the assessment of children at various developmental stages.

This course will be held at the state-of-the-art SickKids Simulation Lab. For further information regarding enrolment and scheduling, email cenurse@ryerson.ca.

8.0 Hours

Fee: \$256.75

★ CVNU 317 Health and Social Policy

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body 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. See the Nursing website, ryerson.ca/ce/nursing, for further information.

39.0 Hours

Fee: \$586.10

★ CVNU 322 Computer and Information Management in Nursing

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. See the Nursing website, ryerson.ca/ce/nursing, for further information. 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.

39.0 Hours

Fee: \$586.10

◇ CVNU 360 Advanced Leadership and Management

Department Consent Required

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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. For department consent, please contact cenurse@ryerson.ca.

39.0 Hours

Fee: \$634.79

CVNU 370 Change and Innovation

Prerequisite: 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.

In order to take this course, you must have a current nursing registration/licensure with a College of Nurses or nursing regulatory body in a Canadian province or territory. For department consent, please contact cenurse@ryerson.ca.

39.0 Hours

Fee: \$634.79

Nutrition and Food

★ CFNN 111 Introduction to Nutrition

Antirequisite: CFNN 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. (Course is delivered exclusively online.)

39.0 Hours

Fee: \$604.88

★ CFNN 400 Advanced Nutrition and Health

Prerequisite: CFNN 202

Health and its multiple determinants are explored from a theoretic and applied perspective. The role of nutrition and food as determinants of health is critically analyzed. This course examines the basis of health promotion and population health initiatives, the agencies and organizations involved, and the inter-sectoral nature of current strategies. Attention is given to the values and support systems of the community. Assets assessment, facilitative communication, community development, and program evaluation are surveyed.

39.0 Hours

Fee: \$650.10

★ CFNN 401 Advanced Nutrition Management of Human Disease

Prerequisites: CFNN 301 and CFNR 201

The nutritional management of both acute and chronic disorders including hepatic, pancreatic and renal disease will be explored with an emphasis on the development of practical nutrition care skills specifically, assessment techniques. Immunodeficiency, surgical, neurologic trauma and critical care conditions will also be addressed. Current nutritional support practices and research initiatives in many of these areas will be critically analyzed.

39.0 Hours

Fee: \$650.10

☆ CFNP 400 Interprofessional Placement

Department Consent Required

This experiential learning course is intended to provide students the opportunity to work with mentors on project-related activities in an interprofessional setting. The course will focus on reflective professional practice through journaling and relevant assignments describing placement setting and responsibilities. This placement experience is open to students in 3rd or 4th years. All placements need to be approved by the faculty supervisor.

39.0 Hours

Fee: \$650.10

★ CFNP 550 Introduction to Dietetics Practice

Corequisite: CFNN 301

This course will examine the policies and legislation, ethical practice standards and emergent issues of the dietetics profession. A self-directed framework will be provided which will allow for competency documentation development. Students will enhance their interpersonal and interprofessional collaboration skills.

39.0 Hours

Fee: \$650.10

★ CFNS 400 Food Service Systems Management

Prerequisites: CACC 100 and CFNS 200

This is an advanced course in the principles of food service operations and management as applied in health care institutions and other settings. Using the case study approach, the latest trends in menu planning, purchasing, inventory and production management, financial controls, planning and system change, and the use of quality assurance mechanisms are emphasized. The application of management information systems, at both the operational and managerial level are highlighted.

39.0 Hours

Fee: \$650.10

CVNN 100 IEPN Nutrition Care Practicum

Department Consent Required

This course provides supervised practical experience in dietetics with a focus on the nutritional management of disease and overall nutritional well-being. Under the supervision of a registered dietitian, students will apply their theoretical knowledge using evidenced-based practice guidelines in a variety of settings including acute and long-term centres. Students will identify and document their learning accomplishments and competencies to match the ICDEP competencies outlined by CDO.

160.0 Hours

Fee: \$1,339.38

CVNN 105 IEPN Admin/Food Service Practicum

Department Consent Required

This course provides administrative practicum experience under the supervision of a registered dietitian. The practicum will include a combination of self-directed projects with an administrative focus as well as all on-site practical experience in a food services setting. Projects may include menu revisions, systems analysis, or project evaluation and implementation. Students will identify and document their learning accomplishments and competencies to match the ICDEP competencies outlined by CDO.

160.0 Hours

Fee: \$1,339.38

CVNN 110 IEPN Public Health Practicum

Department Consent Required

This course provides supervised practical experience in dietetics with a focus on health promotion and disease prevention. Under the supervision of a registered dietitian, students will work in a variety of settings in a range of programs intended to promote the health of groups or populations with differing needs. Students will identify and document their learning accomplishments and competencies to match the ICDEP competencies outlined by CDO.

160.0 Hours

Fee: \$1,339.38

Physics

☆ CPCS 106 Physics for the Health Sciences

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.

This course includes a lab.

52.0 Hours

Fee: \$969.00

★ CPCS 110 Physics

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.

Not available to Faculty of Engineering and Architectural Science students nor to Faculty of Science students (with the exception of Computer Science Program).

52.0 Hours

Fee: \$797.89

★ CPCS 120 Physics I

Antirequisites: PCS 125 and PCS 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.

This course includes a lab.

65.0 Hours

Fee: \$973.17

★ CPCS 130 Physics II

Prerequisite: CPCS 120;

Antirequisites: PCS 125 and PCS 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.

65.0 Hours

Fee: \$1247.57

☆ CPCS 181 Introduction to Astronomy

Not available to Engineering students.

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.

39.0 Hours

Fee: \$604.88

☆ CPCS 581 Advanced Topics in Astronomy

Prerequisites: CPCS 181 or PCS 510;

Not available to students in the Faculty of Engineering and Architectural Science.

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.

39.0 Hours

Fee: \$604.03

Internationally Trained Medical Doctors

❖ CKHS 100 Health Research Methodology

Department Consent Required

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.

39.0 Hours

Fee: \$576.00

❖ CKHS 110 Health Informatics and Data Management

Department Consent Required

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).

39.0 Hours

Fee: \$576.00

❖ CKHS 120 Fund of PM for Health Professionals

Department Consent Required

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.

39.0 Hours

Fee: \$576.00

❖ CKHS 130 Practicum Placement

Department Consent Required

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.

140.0 Hours

Fee: \$0.00

❖ CKHS 140 Health Pro Comm and Ldshp Skills

Department Consent Required

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.

39.0 Hours

Fee: \$576.00

❖ **CKHS 150 Multidisc Hlth Rsrch/Mgmt Seminar**

Department Consent Required

This is an interactive course on health research, management of health care projects, and professional development and networking.

39.0 Hours

Fee: \$576.00

INFORMATION TECHNOLOGIES AND COMPUTER SCIENCE

Aerospace Engineering

❖ **CKAE 100 CATIA Engineering Design I**

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: \$476.12

❖ **CKAE 102 CATIA Engineering Design III**

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.

12.0 Hours

Fee: \$293.00

Computer Science

★ **CCPS 109 Computer Science I**

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.

65.0 Hours

Fee: \$1,256.97

★ **CCPS 209 Computer Science II**

Prerequisite: CCPS 109

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

65.0 Hours

Fee: \$1341.24

☆ **CCPS 213 Computer Organization I**

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. (2 hr Lab every other week).

65.0 Hours

Fee: \$633.04

★ **CCPS 305 Data Structures**

Prerequisites: CCPS 209

Introduction to data structures and algorithms. Data structures covered will include stacks, queues, lists, trees, and graphs. Algorithm topics will include searching, sorting, hashing, algorithm design, greedy approaches, dynamic programming, recursion and complexity analysis.

52.0 Hours

Fee: \$772.85

☆ **CCPS 310 Computer Organization II**

Prerequisite: CCPS 213 or CPS 211

A continuation of CPS 213. Memory; CPU architecture and instruction set; the instruction processing sequence; generic assembler level programming illustrated for specific CPUs; I/O essentials including interrupts and DMA; characteristics of major peripherals interfaces; RISC and CISC architectures compared; parallel processing. The laboratory requires using a specific assembler/editor for the creation of programs illustrating some of the principles discussed in lectures.

65.0 Hours

Fee: \$953.36

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

Prerequisites: 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.

39.0 Hours

Fee: \$633.04

★ CCPS 393 Introduction to UNIX, C and C++

Prerequisite: CCPS 109 and CCPS 209

The course introduces the UNIX operating system, and the C and C++ languages. UNIX topics include: I/O, redirection, processes, and shell scripts. C and C++ are introduced with an emphasis on differences from previously studied languages. C topics include pointers, structures, memory allocation, and paradigm differences. C++ topics include class formalisms, static and dynamic instantiation, inheritance, constructors and destructors, polymorphism with virtual functions, operator overloading, and time permitting, friends. Stream I/O may be introduced.

52.0 Hours

Fee: \$666.43

☆ CCPS 406 Introduction to Software Engineering

Prerequisite: CCPS 311 or CCPS 209

This course introduces the study of Object-Oriented software engineering. Topics include software project management, requirements gathering, requirements analysis, modeling, design, implementation and testing. UML diagrams and design patterns are also discussed. A major portion of the course is a team project, taking a system from the initial requirements to the final implementation. (2 hr Lab every other week).

Includes three lecture hours and one lab hour.

52.0 Hours

Fee: \$805.19

☆ CCPS 412 Social Issues, Ethics and Professionalism

This course will cover some of fundamental social, legal, and ethical issues inherent in the discipline of computing. Topics include social context, analytical tools, professional ethics, intellectual property, privacy and civil liberties, professional communication and sustainability.

39.0 Hours

Fee: \$867.76

★ CCPS 420 Discrete Structures

Prerequisite: CMTH 110;

Antirequisite: MTH 210

Introduction to discrete structures and probability as they apply to design and analysis. Review of proof techniques: induction and recursion. Graphs and trees, and their applications in computing. Finite automata and computability. Counting: arithmetic and geometric progressions, permutations and combinations, modular arithmetic. Probability.

39.0 Hours

Fee: \$851.76

☆ CCPS 506 Comparative Programming Languages

Prerequisites: CCPS 209

A survey of major programming paradigms, with emphasis on the functional paradigm. Discussion of data typing, program decomposition, scoping rules, control structures parameter passing. Programming languages will likely include commercially important functional languages such as Haskell, Clojure and Erlang, with examples of others as time permits.

52.0 Hours

Fee: \$772.85

★ CCPS 510 Database Systems I

Prerequisite: 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.

52.0 Hours

Fee: \$772.85

☆ CCPS 530 Web Systems Development

Prerequisite: CCPS 209

This course presents the concepts and applications of the technologies to design and develop creative and successful web services. It covers design fundamentals and also programming languages for both server-side and client-side environments. Responsive design, search engine optimization and monetization strategies are also introduced.

52.0 Hours

Fee: \$633.04

★ CCPS 590 Operating Systems I

Prerequisite: CCPS 305 and 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.

52.0 Hours

Fee: \$845.88

★ CCPS 610 Database Systems II

Prerequisite: CCPS 510

This course is a continuation of CPS510. Topics include: embedded DB languages (e.g. JDBC class libraries) and Embedded SQL, Transaction management, Distributed Databases, Transaction Concurrency Control, Concurrency Control through Locking/protocol and time stamps, Object-Oriented and Object-Relational Database Systems, non-structured and NOSQL databases (e.g. Mongo DB). Introduction to big data management, Map-Reduce and Hadoop.

52.0 Hours

Fee: \$772.85

★ CCPS 613 Human-Computer Interaction

Prerequisite: 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).

65.0 Hours

Fee: \$772.85

☆ CCPS 616 Algorithms

Prerequisites: (CCPS 305 and MTH 210) or (CCPS 305 and CCPS 420)

Complexity analysis and order notations, recurrence equations, brute force, divide-and-conquer techniques and the master theorem, transform-and-conquer and problem reduction, greedy method, dynamic programming, the knapsack and travelling salesman problems, graph algorithms, text processing and pattern matching techniques, P, NP, and NP-complete classes.

52.0 Hours

Fee: \$884.08

☆ CCPS 633 Computer Security

Prerequisites: CCPS 393

History and examples of computer crime. Security policies and mechanisms. Access control models. Implementation and usability issues. Physical security. Authentication technologies. Operating system security. Encryption algorithms and protocols. External and internal firewalls. Software flaws and malware. Ethical issues in computer security. Sample privacy noncompliance litigation cases, Social implications of computing networked communication.

52.0 Hours

Fee: \$772.85

★ CCPS 706 Computer Networks I

Prerequisite: 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.

52.0 Hours

Fee: \$563.15

☆ CCPS 716 Computer Networks II

Prerequisites: CCPS 706

Advanced Internet routing algorithms (inter-AS routing, broadcast and multicast routing, switch design). Advanced data link layer topics (virtual local area networks, multi-protocol label switching). Multimedia Networking (streaming, real-time transport protocols, content distribution networks, scheduling and policing algorithms, providing quality of service). Wireless/Mobile Networks, (cellular networks, WiFi, mobility management, routing in MANET). Network Management. Special topics in networking.

39.0 Hours

Fee: \$867.76

★ CCPS 721 Artificial Intelligence I

Prerequisites: (CCPS 305 and MTH 210 and CMTH 304) or (CCPS 305 and CCPS 420) or Direct Entry

This course provides introduction to several important AI problems and techniques, including knowledge representation and reasoning, constraints satisfaction, search, natural language understanding, planning, uncertainty, belief networks, learning.

52.0 Hours

Fee: \$845.88

☆ CCPS 731 Software Engineering I

Prerequisite: CCPS 406

Essential methods for the Systematic approach to the development, operation, maintenance, and retirement of Software. Software Life Cycles, process modelling, configuration management, managing Software quality, requirements analysis, specification, verification and validation, Software design, implementation, testing and maintenance. Software Tools, CASE tools and documentation. (2 hr. Lab every other week)

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

52.0 Hours

Fee: \$772.85

☆ CCPS 844 Data Mining

Prerequisites: CCPS 305

This course introduces the basic data mining concepts, methods, implementations, as well as applications in different areas, especially on the world wide web. Topics covered include the basic data mining techniques, data preprocessing, association rule mining, classification, clustering, web mining, and data mining application (e.g. in web personalization, recommender system, security). At the end of this course, students should be able to implement and use some of important data mining algorithms in practical applications.

52.0 Hours

Fee: \$772.85

☆ CCPS 853 Creating Big Data Systems

Prerequisites: CCPS 406 and CCPS 420 and CCPS 510

This course will discuss how to build Big Data analytic and transactional systems. The course will provide introduction to the theory and practice of large-scale software systems. We will focus on defining Big Data properties and architecting the systems to accommodate these properties. In addition, we will cover quality assurance of such systems, as well as management (risk estimation, planning, team management, etc.)

52.0 Hours

Fee: \$1169.50

NEW!

CKCS 103 Intro to Full Stack Web Developer

Excel in Full Stack developers' tools Git, Github and the Unix Shell. Distribute via Linux server to a virtual machine in order to host and to install updates to your web applications. Combine HTTP and key networking skills with DNS, NAT, IPv6, latency and bandwidth. Problem-solve with tcpdump. Build with SQL and Python multi-user web applications on Google. Leverage external web APIs to perform asynchronous browser updates and to employ the jQuery JavaScript library to handle API responses. Note: This course takes place in a computer lab.

39.0 Hours

Fee: \$1018.98

NEW!

CKCS 106 Intro to Artificial Intelligence (AI) and Ethics

Learn to apply ethical frames of reference to professional applications of artificial intelligence and to use practical data methods to solve ethical problems when engaging in AI at work. With the rise in algorithmic and AI decision-making, autonomous systems, and machine learning, gain skills in executing ethical oversight and regulatory adherence in order to ensure that AI remains trustworthy in the dissemination of information and the protection of individual rights.

39.0 Hours

Fee: \$1,018.98

❖ CKCS 107 Data Analytics Through Excel

This course will prepare students to author and run predictive models on unstructured data. Using Excel, big data analytics methods will be applied using classifications, linear regressions, and visualizations.

39.0 Hours

Fee: \$1,057.29

❖ CKCS 113 Intro to Machine Learning

This interactive, hands-on course for non-practitioners focuses on powerful, deep machine learning applications, neural networks, and frameworks and techniques on Big Data to execute real world solutions to complex problems. The course covers AI algorithms, deep learning architectures, and statistics and probability for Big Data analysis. Skills taught include Python, Spark, Caffe, Theano, TensorFlow, and Neon.

39.0 Hours

Fee: \$1,057.29

❖ CKCS 122 VR Developer for Smartphones

The Virtual Reality (VR) Developer course provides the hands-on technical skills and knowledge to work in the Virtual Reality (VR) wearables industry (Google, Apple, Samsung, Microsoft, Facebook, HTC, and Disney) to transform how we experience VR experiences on Smartphones (iPhone/Android). The course explores industry best practices and technologies to create virtual and augmented experiences on phones and tablets. The VR industry tools, technical applications, and techniques taught will be used to build potential commercial applications.

39.0 Hours

Fee: \$1,347.49

❖ CKCS 123 AR Developer for Smartphones

The Augmented Reality (AR) Developer course provides the hands-on technical skills and knowledge to work in the Augmented Reality (AR) wearables industry (Google, Apple, Samsung, Microsoft, Facebook, HTC, and Disney) to transform how we experience AR experiences on Smartphones (iPhone/Android). The course explores industry best practices and technologies to create augmented experiences on smart phones and tablets. The AR industry tools, technical applications, and techniques taught will be used to build potential commercial applications.

39.0 Hours

Fee: \$1,347.49

NEW!

CKCS 125 Web Accessibility Auditing and Reporting

This course is intended for web content creators, designers and developers. With accessibility laws emerging in Ontario around the world, there is an increasing demand for skilled accessibility professionals who can identify potential barriers on the Web, and make informed recommendations to correct them. Participants will use a variety of tools and methods for identifying barriers, and, through a hands-on project, conduct formal web accessibility audits on a website of their choosing.

30.0 Hours

Fee: \$764.61

NEW!

CKCS 126 Web Accessibility for Developers

This course is aimed at web developers, and web designers with some HTML and Javascript experience. The focus is on developing expertise using WAI-ARIA, the W3C specification for creating accessible web interactivity. Participants will create a collection of interactive widgets that are accessible to those using assistive technology, and will produce a reusable jQuery library that automates the application of WAI-ARIA. With emerging accessibility laws, these are essential skills for anyone developing for the web.

30.0 Hours

Fee: \$764.61

❖ CKCS 150 Introduction to Programming in Python

Python's elegant syntax and dynamic typing, together with its interpreted nature, make it an ideal language for scripting and rapid application development, in many areas and on most platforms. This course starts with a gentle introduction to programming in Python for data analysis. It covers essential Python libraries for Manipulating, Processing, Cleaning, Crunching, Plotting, Visualizing, Modeling and Analyzing data.

This course will be taught in a computer lab.

39.0 Hours

Fee: \$917.90

NEW!

CKCS 151 Intro to Deep Learning with Python and TensorFlow

Combine practical Python coding with already existing deep learning and scalable AI-powered algorithms to engineer neural networks using models in TensorFlow, an industry-adopted open source framework for deep learning and machine learning. Working with large datasets, train neural networks to learn by using the training method backpropagation and by coding them with features in NumPy. Deploy neural networks modeled in TensorFlow on mobile phones and in web browsers. Note: This course takes place in a computer lab.

39.0 Hours

Fee: \$1018.98

❖ CKCS 155 Intro to Hadoop and Tableau

This course provides technical mastery of the big data tool, Hadoop, of Hadoop environment administration, and of related Big Data queries, together with Big Data queries administered in Tableau. This course is composed of interactive lectures with hands-on programming of Hadoop big data queries within Hadoop administration environments, together with administering Tableau big data query models and outputs. The Hadoop environment and Tableau make for ideal administration platforms for Big Data query models.

39.0 Hours

Fee: \$1057.29

❖ CKCS 175 Drone/UAV Pilot Ground School

This course provides introductory guidance for new drone/UAV operators. It is compliant with Transport Canada's knowledge requirements for pilots of small drones/UAVs under 25 kg in weight for visual line of sight operations. The course prepares students for Transport Canada's Pilot Permit Exam and covers five main areas of foundational knowledge: air law, navigation, meteorology, aeronautics, and radiotelephony. This course fulfills the criteria for a "Compliant Pilot" and meets Transport Canada inspector requirements.

36.0 Hours

Fee: \$926.93

❖ CKCS 176 Drone/UAV Operations

Prerequisite: CKCS 175

This course is designed to go beyond the pilot knowledge requirements. It focuses on the Transport Canada compliant UAV operations, current Canadian regulatory environment, and best industry practices. During this course, the students will complete regulatory applications, Company Operation Manual (COM), fleet management records, operation checklists, and detailed workflows for planning, pre-flight, post flight, and flight operations management for their drone operation. Students will be ready to set up a compliant drone/UAV operation in Canada.

36.0 Hours

Fee: \$926.93

❖ CKCS 177 UAV Remote Sensing Apps

Drone/UAV-based remote sensing is a rapidly developing field. Application will be combined with real case studies related to disaster management, precision agriculture and vegetation study, law enforcement and surveillance, search and rescue, 3-D mapping and surveying, thermal and visual inspection, and mining and aggregate, together with Chemical, Biological, and Radiation (CBR) Detection. Upon completion, students have mastered how to set up a complete drone/UAV remote sensing mission for a variety of applications.

36.0 Hours

Fee: \$926.93

❖ CKCS 182 IoT Monetization and Value Creation

With IoT and distributed, unstructured data generated by sensors, beacons, applications, websites, social media, weather data, computers, smartphones, how to monetize IoT data? Topics covered include the Sharing Economy meets IoT; product and service subscriptions through IoT, the Cloud and human to machine interaction; predictions for where the impact for monetization and value creation will be generated by IoT implementations; and perspectives on how IoT delivers monetization, efficiency, productivity, profitability, competitive advantage, and economic prosperity.

30.0 Hours

Fee: \$679.84

❖ CKCS 186 Intro to iPhone Apps Development

Using the iOS platform to build apps for the iPhone, the features of iOS and iOS 9 SDK are applied, as well as the Objective-C language, Xcode development tools, user interface development, app development, and deployment. Topics include storyboards, localization, Core Data, navigation controllers, blocs, code optimization, data persistence, Twitter integration, and view controllers. Designing interfaces, building controls, connecting to networks and services from apps to devices, testers, and the App Store are covered.

This course will be taught in a Macintosh computer lab.

30.0 Hours

Fee: \$1,057.29

❖ CKCS 233 Product Design for 3-D Printing

Participate in hands-on activities to draw effectively the elements of form including dot, line, shape, value, texture, dominance, hierarchy, emphasis, balance, contrast, tension, and rhythm. Discover how to generate dimensionally powerful product design concepts that translate effectively when printed in 3-D. Draw to hone your product design concepts prior to moving to the prototyping stage with a 3-D printer. Prepare a 3-D model ready for optional 3-D printing at Ryerson University's 3-D Printing Lab.

No previous drawing experience is required. Supplies to be purchased by the student: Students are required to purchase drawing materials.

39.0 Hours

Fee: \$909.42

CKCS 996 Big Data Tools Fast Track

This intensive program offers students a fast track to completion of the Course Series in Hadoop, Python, and Tableau Big Data Tools. Participants will complete two of the courses required to earn the Professional Development Award.

78.0 Hours

Fee: \$2,114.58

CKCS 999 Computer Programming Fast Track

This intensive program offers students a fast track to completion of the Course Series in Computer Programming for Game Developers. Participants will complete all three courses required to earn the Professional Development Award.

117.0 Hours

Fee: \$3,056.94

Computer Security and Digital Forensics

CKDF 110 Computer Network Security

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.

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. Brampton Location: City of Brampton City Hall, West Tower, 41 George Street South (Room: WT-2A)

39.0 Hours

Fee: \$879.59

CKDF 120 Computer Cryptography and Digital Steganography

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.

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. Brampton Location: City of Brampton City Hall, West Tower, 41 George Street South

39.0 Hours

Fee: \$879.59

CKDF 130 Digital Forensics Systems

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.

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. Brampton Location: City of Brampton City Hall, West Tower, 41 George Street South

39.0 Hours

Fee: \$879.59

CKDF 140 Security Architecture and Design

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.

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. Brampton Location: City of Brampton City Hall, West Tower, 51 George Street South (Room: WT-2A)

39.0 Hours

Fee: \$879.59

CKDF 145 Certified Information Systems Security Professional (CISSP)

The Certified Information Systems Security Professional (CISSP) certification program, offered by the (ISC)², validates the information security professional's deep technical and managerial knowledge and experience. With a unique Canadian perspective, this course helps students prepare for the CISSP exam and covers the eight domains: Security and Risk Management, Asset Security, Security Architecture and Engineering, Communications and Network Security, Identity and Access Management, Security Assessment and Testing, Security Operations, and Software Development Security.

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. Brampton Location: City of Brampton City Hall, West Tower, 41 George Street South

39.0 Hours

Fee: \$879.59

CKDF 150 Digital Forensics Investigation

Department Consent Required

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.

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. This course will run during the Winter break.

39.0 Hours

Fee: \$879.59

CKDF 999 Computer Security Fast Track

This intensive program offers students a fast track to completion of the Certificate in Computer Security and Digital Forensics. Participants will complete all six courses required to earn the certificate.

To gain access to priority enrolment, students should register in the certificate program in advance of the priority enrolment period. For further information, contact Academic Coordinator Alex Ferworn at afeworn@ryerson.ca.

234.0 Hours

Fee: \$5,320.79

Geography

☆ CGEO 106 Geographies of Everyday Life

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.

39.0 Hours

Fee: \$588.18

⊕ CGEO 108 Geography of the Global Village

This course explores the factors that contribute to and characterize globalization. Starting with a discussion of basic ecological concepts and the impacts of the industrial revolution on current global socio-economic and environmental issues, this course examines population dynamics, quality of life indicators and the world food system, and offers new strategies to deal with environmental degradation.

39.0 Hours

Fee: \$588.18

☆ CGEO 110 The Physical Environment

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.

39.0 Hours

Fee: \$569.40

★ CGEO 131 Energy, Earth and Ecosystems

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.

39.0 Hours

Fee: \$648.69

★ CGEO 151 Location, Location, Location

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.

39.0 Hours

Fee: \$648.69

⊕ CGEO 206 Regions, Nations and the Global Community

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.

39.0 Hours

Fee: \$588.18

★ CGEO 301 Marketing Geography

Antirequisite: GEO 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.

39.0 Hours

Fee: \$569.40

★ CGEO 419 Retailing, GIS and Geodemographics

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.

39.0 Hours

Fee: \$563.15

★ CGEO 505 Regional Analysis of Canada

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.

39.0 Hours

Fee: \$569.40

★ CGEO 581 GIS, Geographic Data and Mapping

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.

39.0 Hours

Fee: \$601.74

☆ CGEO 609 cyberspace@geography. Ca

Restriction: Not available to Computer Science or Business Technology Management students

This course examines the historical development of global communication systems, with emphasis on the growth, characteristics and impacts of the World-Wide Web on global socio-economic and environmental relationships. From World City Systems to rural and marginalized places around the globe, the examination and analysis of cyberspace proves useful in understanding a new geography that negates the "death of distance."

39.0 Hours

Fee: \$569.40

☆ CGEO 644 Spatial Databases

Prerequisite: GEO 441

Spatial databases are a fundamental component of geographic information systems (GIS) and the basis for geographic analysis. This course introduces principles of database management and spatial data handling, including data models, database analysis and schema design. Representation and querying of geographic information will be discussed and accompanied by practical examples from selected application domains. The labs will introduce database management systems within and outside GIS, including distributed databases used in Web applications.

39.0 Hours

Fee: \$569.40

★ CGEO 691 Canadian Immigration: Patterns and Place

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.

39.0 Hours

Fee: \$569.40

☆ CGEO 702 Technology and the Contemporary Environment

Antirequisite: CGEO 703;

Not available to students in Occupational and Public Health - Occupational Health and Safety option nor Public Health and Safety option.

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.

39.0 Hours

Fee: \$569.40

★ CGEO 720 The Inner Landscape of Culture

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.

39.0 Hours

Fee: \$645.57

☆ CGEO 793 The Geography of Toronto

Founded in 1793 on First Nations territories, Toronto is Canada's largest metropolitan area and arguably a world class city. Although Toronto may reflect some of the characteristics of Canada as a whole, it is a distinct geographical space. This course provides students with an understanding of Toronto, by examining interrelated historical, social, cultural, political, and environmental issues. Throughout the course, North American and global perspectives are considered, where appropriate.

39.0 Hours

Fee: \$645.57

☆ CGEO 802 The Geography of Recreation and Leisure

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

★ CGEO 820 The Outer Landscape of Culture

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.

39.0 Hours

Fee: \$645.57

⊕ CODA 100 Principles of Demographic Analysis

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.

39.0 Hours

Fee: \$849.56

⊕ CODA 110 GIS Applications in Demography

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.

39.0 Hour

Fee: \$849.56

⊕ CODA 120 Advanced Demographic Applications

Department Consent Required

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.

This is a project-based, independent study course.

39.0 Hours

Fee: \$849.56

NEW!**✦ CODC 910 Spatial Methods in Crime Analysis***Prerequisites: CODG 101 and CODG 102*

This course will provide students with an opportunity to practice identifying crime trends, patterns, and offenders, which inform tactical and strategic operations as well as community policing programs. Students will use current Geographic Information System (GIS) and data management tools to complete lab assignments based on the main theories and research strategies used in law enforcement crime analysis today. Students will conduct analysis using crime data from publicly available datasets.

39.0 Hours

Fee: \$662.26

NEW!**✦ CODC 911 Crime Analytics Project***Prerequisite: CODC 910*

The Crime Analytics Project is a capstone course which synthesizes the multidisciplinary foundation, established through the student's studies in the program. The project is designed to have a practical application within law enforcement and to demonstrate a comprehensive understanding of analytics. Students will be required to demonstrate an understanding that analytics are substantially more than just a tool and that there is a social responsibility associated with directed deployment-type analytical methods.

39.0 Hours

Fee: \$662.26

★ CODG 101 Spatial Databases and Digital Cartography*Department Consent Required;**Antirequisite: 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.

For department consent please contact Dr. Joe Aversa at javersa@arts.ryerson.ca

39.0 Hours

Fee: \$687.26

★ CODG 102 Digital Geography and Spatial Analysis*Department Consent Required;**Antirequisite: CODG110 and COGT110*

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.

For department consent please contact Dr. Joe Aversa at javersa@arts.ryerson.ca

39.0 Hours

Fee: \$687.26

✦ CODG 123 Digital Geography Applications in Utilities Planning*Prerequisites: (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.

39.0 Hours

Fee: \$915.65

✦ CODG 124 Digital Geography Applications in Business Decision-Making*Prerequisites: (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.

39.0 Hours

Fee: \$915.65

✦ CODG 125 Digital Geography Applications for the Municipal Professional*Prerequisites: (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.

39.0 Hours

Fee: \$915.65

✦ CODG 126 Digital Geography Applications in

Environmental Management

Prerequisites: (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.

39.0 Hours

Fee: \$874.56

📍 CODG 127 Digital Geography Applications in Community and Social Services

Prerequisites: (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.

39.0 Hours

Fee: \$874.56

📍 CODG 130 Legal and Ethical Issues in GIS and Digital Data

Prerequisites: (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.

39.0 Hours

Fee: \$881.99

📍 CODG 131 Issues and Innovations

Prerequisites: (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.

39.0 Hours

Fee: \$881.99

★ CODG 132 Customizing GIS Software:

Applications Programming

Prerequisites: (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.

39.0 Hours

Fee: \$687.26

📍 CODG 133 Map Algebra: Topology and Overlay

Prerequisites: (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.

39.0 Hours

Fee: \$874.56

★ CODG 135 Digital Image Processing and Applications

Prerequisites: (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.

39.0 Hours

Fee: \$687.26

📍 CODG 136 Web Mapping

Prerequisites: (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.

39.0 Hours

Fee: \$915.65

✦ CODG 210 Spatial Database Management Systems

Prerequisite: 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.

39.0 Hours

Fee: \$915.65

✦ CODG 211 Advanced GIS Programming

Department Consent Required

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.

39.0 Hours

Fee: \$874.56

✦ CODG 212 Spatial Statistical Methods

Department Consent Required

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.

39.0 Hours

Fee: \$874.56

✦ CODG 213 Internet GIS

Department Consent Required

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.

39.0 Hours

Fee: \$874.56

✦ CODG 220 GIS Implementation

Department Consent Required

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.

This is an independent study course.

39.0 Hours

Fee: \$874.56

Information Technology Management

★ CITM 100 Foundations of Information Systems

Antirequisites: 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.

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

52.0 Hours

Fee: \$1198.63

★ CITM 102 Business Information Systems I

Antirequisites: CITM 100, ITM 101, ITM 277. Not available to Business Technology Management students.

This course introduces students to the role of information technology in the modern enterprise with a focus on applying technology to achieve and maintain competitive advantage. The main premise is the introduction of information technology infrastructure and services to support operational efficiency, decision-making, and digital business. Emphasis is on the development of critical thinking and analytical skills through real-life applications and case studies. During the lab component, students gain hands-on experience with Microsoft Excel.

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.

39.0 Hours

Fee: \$903.35

☆ CITM 107 Managerial Decision Making

Antirequisites: QMS 110, QMS 130

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.

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

39.0 Hours

Fee: \$728.07

★ CITM 200 Fundamentals of Programming

Prerequisite: CITM 207;

Antirequisite: CPS 209

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.

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

39.0 Hours

Fee: \$728.07

★ CITM 207 Computer-Enabled Problem Solving

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.

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

39.0 Hours

Fee: \$728.07

★ CITM 301 IT Infrastructure

Prerequisite: CITM 207 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.

The prerequisites may be waived if the student has specific professional experience. Registered certificate program students without the course prerequisites who wish to take this course, may contact the Academic Coordinator, Farid Shirazi, at f2shiraz@ryerson.ca for more information. Standard course outlines for Information Technology Management (CITM) courses are available on the ITM website.

39.0 Hours

Fee: \$791.72

★ CITM 305 Systems Analysis and Design

Prerequisite: CITM 100 or CITM 102or 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.

A prerequisite may be waived if the student has specific professional experience. Students registered in the Certificate in Health Informatics who have successfully completed CHIM 305, 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.

39.0 Hours

Fee: \$791.72

★ CITM 315 Server Administration

Prerequisite: CITM 301

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 330 Supply Chain Process Architecture

Prerequisite: CITM 410

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.

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

39.0 Hours

Fee: \$765.63

★ CITM 350 Concepts of e-Business

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

This course explores the concepts, technology, and applications of electronic business (e-Business). It covers the technical, social, and business changes that contribute to the evolution of e-Business and its importance to today's business activities. It reviews how to develop business strategies and architectures to seize these opportunities. It explains the technological infrastructure needed to support an e-Business system and describes how these systems are built. The course also examines characteristics and examples of e-Business.

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

39.0 Hours

Fee: \$711.38

★ CITM 410 Business Process Design

Prerequisite: CITM 100 orCITM 102or in the 2-Year Business Technology Management Ontario College Diploma Graduate 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.

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

39.0 Hours

Fee: \$791.72

★ CITM 430 System Design and Implementation

Prerequisites: CITM 200 and CITM 305or in the 2-Year Business Technology Management Ontario College Diploma Graduate Program

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 500 Data and Information Management

*Prerequisite: CITM 207;
Antirequisite: CPS 510*

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.

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

39.0 Hours

Fee: \$791.72

★ CITM 501 Decision Analysis

Prerequisite: CITM 107 or QMS 110 or QMS 130

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 595 Auditing of Information Systems

Prerequisites: (CACC 521 or AFA 518) and CITM 696

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 600 Data Communications Network Design

Prerequisite: CITM 301

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.

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

39.0 Hours

Fee: \$765.63

★ CITM 601 Advanced Business Process Methods

Prerequisite: CITM 410

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 605 Client Server Applications

Prerequisites: CITM 200 and 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.

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

39.0 Hours

Fee: \$711.38

★ CITM 610 Database Administration

Prerequisite: 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.

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

39.0 Hours

Fee: \$711.38

★ CITM 617 Physical Dbase Design and Implementation

Prerequisite: CITM 500

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.

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

39.0 Hours

Fee: \$791.72

☆ CITM 618 Business Intelligence and Analytics

Prerequisites: CITM 207 and (CQMS 102 or CQMS 210)

This course provides an introduction to business intelligence and analytics, defined as the extensive use of data, statistical and quantitative analysis, exploratory and predictive models, and fact-based management to drive decisions and actions. The development and use of data warehouses and data marts, and the application of selected data (including text and web) mining techniques to business decision making is illustrated. Students actively participate in the delivery of the course through case and project presentations.

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

39.0 Hours

Fee: \$711.38

★ CITM 696 Accounting Information Systems

Prerequisite: CITM 102;

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 706 Enterprise Architecture

Prerequisites: 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.

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

39.0 Hours

Fee: \$710.50

☆ CITM 707 Strategy, Management and Acquisition

Prerequisites: ITM 706 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.

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

39.0 Hours

Fee: \$711.38

★ CITM 711 Cloud Computing

Prerequisite: CITM 301;

Antirequisite: ITM 703

This course will provide a comprehensive coverage on the concepts, architectures and technologies of cloud computing from a business perspective. It provides a deep-down analysis of architectures and mechanisms that capture the real-world of cloud platforms. It dives into all of the details that organizations need to know in order to plan for developing applications on cloud and what to look for when using applications or services hosted on a cloud.

39.0 Hours

Fee: \$711.38

★ CITM 750 IS Project Management

Prerequisite: CITM 305;

Antirequisites: CGMS 450, CPS 714

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.

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

39.0 Hours

Fee: \$711.38

★ CITM 820 Information Systems Security and Privacy

Prerequisite: CITM 301;

Antirequisites: ITM 420, CCPS 633

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.

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

39.0 Hours

Fee: \$637.29

✧ CZIT 427 Data and Info. Mgmt for Privacy

This course will give students an understanding of the concepts, terminology, and issues related to data and information management in the context of access and privacy. Students will be introduced to theories, standards, and techniques underlying information management programs and practice that will enable them to communicate with practitioners from a variety of information management related disciplines.

39.0 Hours

Fee: \$669.36

Robotics and Embedded Systems

✧ CKRE 110 Digital Logic and Hardware Architecture

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.

39.0 Hours

Fee: \$879.59

✧ CKRE 120 Programming Robotics Systems

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.

It is recommended students take CSCI 130 and have C programming experience prior to taking this course.

39.0 Hours

Fee: \$879.59

✧ CKRE 130 Embedded Systems Hardware Architecture and Implementation

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.

39.0 Hours

Fee: \$879.59

✧ CKRE 140 Real-Time Embedded Systems Programming

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.

It is recommended students take CSCI 130 and have C programming experience prior to taking this course.

39.0 Hours

Fee: \$879.59

✧ CKRE 150 Emerging Issues in Robotics and Embedded

Systems

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.

This course may be taken as individualized study/directed reading; please contact the Academic Coordinator, Alex Ferworn, at aferworn@ryerson.ca prior to enrolling.

39.0 Hours

Fee: \$879.59

CKRE 999 Robotics and Embedded Syst Fast Track

This intensive program offers students a fast track to completion of the Certificate in Robotics and Embedded Systems. Participants will complete all six courses required to earn the certificate.

234.0 Hours

Fee: \$5,157.98

★ CSCI 130 Mobile Robotic Devices Embedded Systems

This course provides applied learning in inventing and programming mobile robotic devices (e.g., cell phones, drones) with embedded or electronic systems. Students engage in hands-on mobile robotic device embedded systems applications and invention through the planning and execution of mobile robotic device systems development, facilitated with mobile robotic kits for embedded system development. This course also provides project management process flow-throughs on planning and executing mobile robotics and embedded systems devices.

It is strongly recommended that students have previous experience with an object-oriented programming language, such as C or C++, prior to taking this course.

39.0 Hours

Fee: \$760.03

LATER LIFE LEARNING

ACT II STUDIO

❖ CSAC 101 Introduction to Acting I

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.

Instructor: Vrenia Ivonoffski

12.0 Hours

Fee: \$173.08

❖ CSAC 102 Introduction to Acting II

Prerequisite: 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.

Instructors: Vrenia Ivonoffski and Kate Lushington. There will be no class on March 12.

15.0 Hours

Fee: \$219.24

❖ CSAC 106 Monologues: The Basics

Learn the building blocks for a solid emotionally connected monologue. Class limit: 10 students.

Instructor: Les Porter

12.0 Hours

Fee: \$196.17

❖ CSAC 109 Introduction to Clown

Antirequisite: 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.

Instructor: Vrenia Ivonoffski. The instructor will have some noses for sale or bring your own.

12.0 Hours

Fee: \$220.41

❖ CSAC 111 Voice Work Basics

Discover how your voice works and develop a clearer and more open, expressive voice. Class limit: 14 students.

Instructor: Kate Lushington

8.0 Hours

Fee: \$132.71

❖ CSAC 112 Voice Work II

Prerequisite: CSAC 111

We will build on the techniques learned in Voice Work Basics. Class limit: 12 students.

Instructor: Kate Lushington

8.0 Hours

Fee: \$138.47

❖ CSAC 114 Introduction to Scene Study

Prerequisite: 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.

Instructor: Vrenia Ivonoffski

12.0 Hours

Fee: \$192.71

❖ CSAC 115 Scene Exploration I

Prerequisite: 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.

Instructor: Kate Lushington. There will be no class on October 24, 2019.

18.0 Hours

Fee: \$316.18

❖ CSAC 126 Restoration Comedy

Prerequisite: 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.

12.0 Hours

Fee: \$219.32

❖ CSAC 151 Playwriting Basics

Through discussion and in-class writing exercises, you will learn the essential components that make up an effective stage play. Pre-class required reading: Michael Healey's 'The Drawer Boy'. Class limit: 14 students.

Instructor: Beverley Cooper

6.0 Hours

Fee: \$102.69

❖ CSAC 156 Playwriting I

Prerequisite: CSAC 151

You will be guided, in a supportive environment, to apply the fundamentals of playwriting to writing a 10-minute play - a great template for longer work. Through discussion and writing exercises we will get the creative juices flowing. We'll cover story lines, character development, dialogue, and scene shaping. This course is suitable for playwrights at all levels. Class limit: 12 students.

Instructor: Beverley Cooper. There will be no class on November 25, 2019.

15.0 Hours

Fee: \$257.44

NEW!

CSAC 159 Discovering Ibsen and Chekhov

This lecture series will dive deep into the creative and historical legacies of two of the Western theatre's most iconic and celebrated playwrights. We will examine the artistic, political, and social dimensions of their work and trace the evolution of their staging from the 19th century into the contemporary context. Pre-Course Suggested Reading: "Hedda Gabler", "The Wild Duck", "An Enemy of the People", "The Cherry Orchard", "The Three Sisters", and "Uncle Vanya".

Instructor: Alexander Offord. There will be no class on October 14, 2019.

8.0 Hours

Fee: \$150.01

❖ CSAC 169 Acting on Camera A to Z

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.

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.

15.0 Hours

Fee: \$257.44

❖ CSAC 182 Introduction to Improvisation

Activate your imagination and learn to think on your feet. Limited to 16 students.

Instructor: Jane Luk. There will be no class on November 16.

8.0 Hours

Fee: \$150.01

❖ CSAC 190 Introduction To Neutral Mask

This course will take you on a powerful journey of physical self discovery. You will experience how to move in an authentic, energized, and intentional way, devoid of personal character traits and physical noise which can interfere with your acting. This course will help you find a calm, joyful, and centred core from which to work.

Instructor: Vrenia Ivonoffski. Please wear comfortable, solid coloured (preferably black) clothes you can move in.

9.0 Hours

Fee: \$171.43

❖ CSAC 206 Shakespeare Monologue

Prerequisite: 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.

Instructor: Vrenia Ivonoffski

10.0 Hours

Fee: \$191.76

NEW!

CSAC 214 Scene Study II: Chekhov and Ibsen

Pre-requisite: CSAC 115

We'll use scenes from the "moderns", Chekhov and Ibsen, to hone the actor's tools of location, sensory work, moment-to-moment acting, and text analysis as we strive for truth. Scenes will be presented at a December Matinee. Limit: 10 students.

Instructor: Sarah McVie. There will be no class on Nov. 29, 2019.

21.0 Hours

Fee: \$386.58

❖ CSAC 215 Scenes From Canadian and Other Plays

Prerequisite: 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.

Instructor: Les Porter. There will be no class on April 13, 2020.

18.0 Hours

Fee: \$316.18

❖ CSAC 240 Acting Without Text

Prerequisite: 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.

Instructor: Richard Beaune

12.0 Hours

Fee: \$220.41

❖ CSAC 263 Focus on Film I

Prerequisite: CSAC 169

Build on your on-camera skills with short film scenes. We'll focus on script work, blocking, and performance consistency. Class limit: 10 students.

Instructor: Graham Orwin. \$10 for software materials will be collected by the instructor in the first class.

15.0 Hours

Fee: \$257.44

❖ CSAC 306 Comedy Monologues

Prerequisite: 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.

Instructor: Les Porter. There will be no class on February 17, 2020.

12.0 Hours

Fee: \$220.41

❖ CSAC 310 The Art of Story Telling

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. Class limit: 10 students

Instructor: Goldie Spencer. There is no class on January 22, 2020.

15.0 Hours

Fee: \$257.44

❖ CSAC 313 Readers' Theatre Techniques

Develop special skills needed for staged readings: act while holding the script, create a defined character, make strong choices, and work off other actors.

Instructor: Vrenia Ivonoffski. This course is a prerequisite for those wishing to act in Readers' Theatre performances. There will be a lunch break from 12:00 p.m. to 1:00 p.m.

4.0 Hours

Fee: \$84.23

❖ CSAC 317 Restoration Comedy Scenes

Prerequisites: 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.

Instructor: Vrenia Ivonoffski. Those enrolling in this course must plan to take the follow-up course, CSAC 318.

18.0 Hours

Fee: \$209.13

❖ CSAC 318 Restoration Comedy Performance

Prerequisite: 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, opening night and closing.

Instructor: Vrenia Ivonoffski. Please note that there will be added hours including: Thursday, Dec. 4, 2019 from 12 pm - 4 pm (first reading of script); Tuesday, Jan. 14, 2020 from 10:30 pm - 4 pm; Friday, Feb. 28, 2020 from 1 pm - 5 pm; Production Week: Mar. 3 - Mar. 7 - Alumnae Theatre

24.0 Hours

Fee: \$219.21

❖ CSAC 320 Poetry Cabaret

Challenge your skill as an actor by preparing and performing some of the great poetry of the last 100 years. Sharpen your ability to communicate heightened language and complex thoughts, images, and intentions. Class limit: 9 students.

Instructor: Kate Lushington. Participants will receive a selection of poems in advance and must choose one of the poems to have memorized for the first class. Poems will be performed at a special Poetry Cabaret. There will be no class on January 24, 2020.

12.0 Hours

Fee: \$182.31

❖ CSAC 341 Actions for Actors

Prerequisite: CSAC 115

Actions are the very core of acting technique. You'll learn to identify and choose strong playable actions. By embodying them, you will develop your instinct to be active and specific rather than cerebral and general. Class limit: 14 students.

Instructor: Richard Beaune. Required text: Duck Variations by David Mamet.

12.0 Hours

Fee: \$184.10

❖ CSAC 382 Improvisation II: Group Mind

Prerequisite: CSAC 182

This magical workshop will 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. Class limit: 16 students.

Instructor: Jan Luk

12.0 Hours

Fee: \$259.64

❖ CSAC 416 Advanced Scene Study: Trios

Prerequisite: CSAC 215

We will explore how the dynamics of communicating character, objective, and action are intensified when there is a triangle. Outside rehearsal will be required to develop your scene between classes. Class limit: 15 students.

Instructor: Aaron Willis. Scenes will be performed at a matinee.

21.0 Hours

Fee: \$359.42

❖ CSAC 421 Alexander Technique I

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.

Instructor: Kate Lushington

12.0 Hours

Fee: \$219.32

❖ CSAC 422 Alexander Technique II

Prerequisite: CSAC 421

We will continue building on our work in Alexander Technique I to help you move with more ease, balance, economy of movement, and grace. Class limit: 12 students.

Instructor: Kate Lushington

12.0 Hours

Fee: \$219.32

❖ CSAC 427 Directing Seminar II: Blocking

By examining some approaches to staging, we'll discuss the following: How do we block without blocking actors' impulses? What makes a good stage picture? How can movement and placement of actors reinforce action, atmosphere, and characterization?

Instructors: Richard Beaune and Vrenia Ivonoffski

5.0 Hours

Fee: \$107.33

CSAC 432 Creating Site-Specific Theatre

Work with the creators of the acclaimed "Gladstone Variations" to create and act in interweaving mini-plays and scenes set in the classrooms and public areas in a building on campus. Learn how to create the pieces and then integrate them. By working toward a very engaging form of theatre where audience members become part of the drama, we'll challenge accepted notions about performance space vs. audience space, and the very idea of what a theatre space is.

Instructors: Julie Tepperman and Mitchell Cushman

12.0 Hours

Fee: \$220.41

❖ CSAC 442 Meisner Technique I: Listening

Prerequisite: 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.

Instructor: Cindy L. Macaulay. The Meisner sessions (CSAC 442, CSAC 443, CSAC 444, and CSAC 445) are interchangeable units of study and can be completed repetitively so that the student can keep a consistent effort in their practice. The classes are geared to accommodate a range of skill levels from beginner to advanced. No class on November 26, 2019.

12.0 Hours

Fee: \$220.41

❖ CSAC 443 Meisner Technique II: Connection

Prerequisite: 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.

Instructor: Cindy L. Macaulay. The Meisner sessions (CSAC 442, CSAC 443, CSAC 444, and CSAC 445) are interchangeable units of study and can be completed repetitively so that the student can keep a consistent effort in their practice. The classes are geared to accommodate a range of skill levels from beginner to advanced.

12.0 Hours

Fee: \$220.41

❖ CSAC 444 Meisner Technique III: Truth

Prerequisite: CSAC 442

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.

Instructor: Cindy L. Macaulay. The Meisner sessions (CSAC 442, CSAC 443, CSAC 444, and CSAC 445) are interchangeable units of study and can be completed repetitively so that the student can keep a consistent effort in their practice. The classes are geared to accommodate a range of skill levels from beginner to advanced.

14.0 Hours

Fee: \$258.37

❖ CSAC 445 Meisner Technique IV: Text

Prerequisite: CSAC 442

This course will focus on bringing text to life in an authentic, in the moment execution. It will build on the principles of the first three courses and will focus on practical application of the Meisner exercise work for use in scene work.

Instructor: Cindy L. Macaulay

14.0 Hours

Fee: \$258.37

❖ CSAC 454 Writing the Monologue

We will explore what makes a monologue work for the stage, both on its own and in the context of a larger play. Together we'll read and examine a variety of existing monologues in a variety of styles from a diverse selection of plays. In each class, we'll do a series of writing exercises that will lay the foundation for two monologues, each with a different point of entry and style.

Instructor: Julie Tepperman

13.0 Hours

Fee: \$244.63

❖ CSAC 482 Improvisation III: Character

Prerequisite: CSAC 382

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.

Instructor: Jane Luk

12.0 Hours

Fee: \$259.64

❖ CSAC 501 Shaw Festival Preview

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.

Instructor: Vrenia Ivonoffski

8.0 Hours

Fee: \$84.23

❖ CSAC 502 Stratford Festival Preview

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.

Instructor: Vrenia Ivonoffski

8.0 Hours

Fee: \$84.23

❖ CSAC 518 Advanced Scene Study: Shifting Partners

Prerequisite: CSAC 115

This novel approach to scene study helps actors avoid falling into patterns. It will heighten focus, listening, spontaneity, and commitment to intentions. You'll play your intentions against a constantly shifting array of scene partners who bring new impulses and information to the scene. Each actor will learn one of two parts in the same scene. Parts in the first scene will be assigned before the class. Class limit: 8 students.

Instructor: Richard Beaune. Arrive to class having read Albee's "Who's Afraid of Virginia Woolf". There will be no class on May 15, 2020.

15.0 Hours

Fee: \$257.44

❖ CSAC 525 Directing Lab I: Continuous Monologue

Prerequisite: CSAC 127

The continuous monologue exercise allows the director and acting company to hear all the dialogue spoken by each individual character in one continuous stream. The information gathered collectively from listening provides different doorways into exploration for both director and cast. Arrive to class having read Chekhov's "The Cherry Orchard".

Instructor: Vrenia Ivonoffski

2.0 Hours

Fee: \$41.55

NEW!

CSAC 542 Michael Chekhov Method: Introduction

Prerequisite: CSAC 214 or CSAC 215 or CSAC 416 or CSAC 515 or CSAC 517 or CSAC 518

Best known for his Psychological Gesture work, Michael Chekhov (Anton Chekhov's nephew) took what he learned as Stanislavski's top student, and lifted it from the natural to the extraordinary. Central to his psycho-physical approach is working with impulse, imagination, inner and outer gesture, and atmosphere. His exercises will open your characters to new possibilities and give you practical tools to apply to any theatre genre. Suggested Reading: Michael Chekhov's "To The Actor".

Instructor: Richard Beaune

18.0 Hours

Fee: \$188.10

NEW!

CSAC 551 Writing for Television: The Basics

Prerequisite: CSAC 156

This is a short, intensive overview of the technical requirements of writing for the small screen. You will learn how to format a professional television script, explore what makes television writing distinct from other forms of dramatic writing, and look at the basic do's and don'ts of script writing for this exciting and ever-changing medium. Class limit: 14 students.

Instructor: Raymond Storey

6.0 Hours

Fee: \$106.83

❖ CSAC 582 Improvisation IV: Making a Scene

Prerequisite: CSAC 482

We will work on creating scenes with strong characters, learning what to focus on in order to build a scene without the pressure to be funny. Class limit: 14 students.

Instructor: Jane Luk

14.0 Hours

Fee: \$259.64

❖ CSAC 605 Basic Makeup Skills

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.

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.

6.0 Hours

Fee: \$106.81

NEW!

CSAC 624 Re-imagining Classic Plays

Italo Calvino described a classic as a work that "has never exhausted all that it has to say". In this course, we're going to learn how to look at and listen to classics from a fresh perspective and to reinterpret and reimagine older texts for the 21st century with irreverence, creativity, joy, and a sense of discovery.

Instructor - Alexander Offord

4.0 Hours

Fee: \$83.09

❖ CSAC 652 Playwriting Clinic

Prerequisite: CSAC 156

This course is for advanced writers who have plays they are working on. Each week we will look at each other's latest draft and offer guided feedback focusing on more dramatic conflict, sharper dialogue, cutting fat, and building complexity. You will be pushed to be more ambitious and daring with each new draft. Class limit: 6 students.

Instructor: Alexander Offord Supplementary course readings may also be used. An open mind, generous spirit, and willingness to take constructive criticism are required.

12.0 Hours

Fee: \$222.56

NEW!

CSAC 655 Comedy Writing for Stage and Screen

In this course, we'll explore what makes comedy work. We'll use in-class writing (singly or in teams) to create compelling character sketches, develop comic monologues, and draft outlines for full-length plays. You will identify the genre that best expresses your comedic gifts; learn to create engaging and relatable characters; acquire techniques behind dialogue that pops; and construct a well-crafted story, while picking up a few tricks of the trade to keep you generating ideas. Class limit: 12 students.

Instructor: Raymond Storey. There will be no class on April 13, 2020.

15.0 Hours

Fee: \$257.44

Caring Clown

❖ CSCC 900 Caring Clown I

Antirequisite: 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.

This course is part of the Caring Clown program.

12.0 Hours

Fee: \$218.74

❖ CSCC 910 Caring Clown II

Prerequisite: 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 development of clown character and role playing practice for individual and small group clowning. Also 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.

21.0 Hours

Fee: \$291.96

❖ CSCC 911 Caring Clown Practicum

Prerequisite: 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 submit a written journal outlining their experiences and learning. A final one-hour interview with the academic coordinator completes the Caring Clown program. Upon successful completion, students will have opportunities to volunteer in long-term care homes. (Formerly CSAC 911)

This course is part of the Caring Clown program.

17.0 Hours

Fee: \$95.76

Music Arts

CSMU 100 Singing Level I

Here is your opportunity to come out and learn to sing. 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.

20.0 Hours

Fee: \$176.73

CSMU 110 50+ Singers

A fun and lively group who meet for weekly rehearsals that are filled with singing, learning, and socializing. A mix of trained and novice voices, this group has one thing in common: they love to sing and want to do more of it! New members are always welcome, and each term concludes with a public singing performance.

22.0 Hours

Fee: \$178.47

NEW!

CSMU 111 50+ Spring Singers

A fun and lively group who meet for weekly rehearsals that are filled with singing, learning, and socializing. A mix of trained and novice voices, this group has one thing in common: they love to sing and want to do more of it! New members are always welcome, and each term concludes with a public singing performance.

12.0 Hours

Fee: \$136.17

PUBLIC AND NONPROFIT SECTORS

Fundraising Management

🌀 CVFM 201 Operations of Fundraising

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.

39.0 Hours

Fee: \$742.94

🌀 CVFM 202 Donor Centered Fundraising

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.

39.0 Hours

Fee: \$742.94

🌀 CVFM 203 Fundraising Campaigns

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.

39.0 Hours

Fee: \$742.94

🌀 CVFM 302 Entrepreneurial Fundraising

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.

39.0 Hours

Fee: \$742.94

🌀 CVFM 303 Annual Giving Programs

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.

39.0 Hours

Fee: \$742.94

Nonprofit

★ CINP 900 Understanding the Nonprofit Sector

This course provides students with insight into the origins and the ideological, social, political, legal and economic contexts of the nonprofit sector. It explores the complexity, diversity, challenges and opportunities through topics including: the scope and nature of the sector; the development of the sector; the role of nonprofits; the changing political, funding and legal environment; forces for change such as social innovation, social finance and social impact, data and technology, and public perceptions.

39.0 Hours

Fee: \$586.10

★ CINP 901 Effective Nonprofit Organizations

The course provides students with an understanding of the principles and practices of effective development and management of nonprofit organizations in a dynamic environment. It explores the legal foundation for nonprofit and charities, organizational structure, governance, leadership, strategy, human and financial resource management, accountability, organizational change, and adaptation.

39.0 Hours

Fee: \$586.10

★ CINP 902 Evaluation for Nonprofits

Antirequisites: CINT 900, CPPA 402, CSWP 932

Evaluation is an important tool for accountability, learning and improvement. This course focuses on developing the knowledge and skills to plan evaluations that make a positive difference. It looks at evaluation from the perspective of the evaluator and the nonprofit organization that commissions the evaluation. Topics include the benefits and challenges of evaluation; ethics; types of evaluations; logic models; data collection and analysis; roles and relationships; performance monitoring; reporting and communication of findings.

39.0 Hours

Fee: \$586.10

★ CINP 910 Strategic Planning for Nonprofits

Developing a compelling vision, agreeing on priorities, and setting measurable objectives is difficult but essential in the complex nonprofit environment. This course teaches students the importance of thinking strategically. It includes: understanding strategy in changing environments; leadership; the planning process including mission statements, environmental analysis, stakeholders, data, roles, strategy development, implementation planning and management; planning in partnerships and collaborations; and developing RFPs.

39.0 Hours

Fee: \$586.10

★ CINP 911 Advocacy and Gov't Relations: Nonprofits

Nonprofit organizations need to develop relationships with different levels of government, join with coalitions and partners and engage communities to raise awareness and advocate for system change. This course provides students with an understanding of the public policy process and the legal and political environment for advocacy. Topics include understanding the environment; developing an advocacy plan; working through coalitions, alliances and collaborations; communications and social media; evidence and data; effective government relations strategies.

39.0 Hours

Fee: \$586.10

★ CINP 912 Marketing for Nonprofits

Antirequisite: CMKT 100

When a nonprofit organization understands its many audiences and employs effective marketing approaches, it can achieve positive results including increased funding and donations, motivated staff and volunteers, informed clients, greater public support and influence. This course provides an overview of how marketing strategy supports and drives the nonprofit mission. Students learn about the role of marketing in organizational strategy and explore topics related to branding, competition, social media, market research, evaluation, ethics, and inclusion.

39.0 Hours

Fee: \$586.10

★ CINP 913 Leadership in Nonprofits

Antirequisite: CMHR 640, CMHR 650, CPPA 501

Societal transformations demand different approaches to leadership in nonprofit organizations. This course provides knowledge and tools to support strong leadership necessitated by economic and political restructuring, blurring boundaries between sectors, technology, demographic change, and demands for accountability and transparency. Topics include leadership theory; profile of nonprofit leadership; leading diverse and multi-generational teams, projects, and partnerships; leading organizational and system change, including change strategies, managing change, overcoming resistance, culture change; and directions for future nonprofit leadership.

Saturday sessions are classroom-based and are a mandatory course component.

39.0 Hours

Fee: \$586.10

★ CINP 914 Diversity in Nonprofits

Antirequisites: CINT 905 and SWP 924

The challenges facing nonprofits today require management, staff, and volunteers to collaborate in increasingly diverse organizations and communities. This course will explore perceptions of diversity, roles and relationships, and conflict and change. It will apply that understanding to the development, leadership and management of nonprofit organizations by looking at leadership, culture and team building, human resource practices, organizational policies and processes, governance, communication, and accountability.

39.0 Hours

Fee: \$586.10

★ CINP 915 Financial Management for Nonprofits

Antirequisite: CPPA 303

It is essential for those working in the nonprofit sector to understand the financial context for the operation of nonprofit and charitable organizations and their programs, initiatives, and enterprises. Students will gain a working knowledge of the concepts, practices and tools associated with budgeting, financial reporting, financial oversight, resource management, financial planning, tax issues, performance measurement, and risk management. The course will provide an opportunity to apply the learning in assignments, discussions and activities.

Saturday sessions are classroom-based and are a mandatory course component.

39.0 Hours

Fee: \$586.10

★ CINP 916 Nonprofits on the Global Stage

This course investigates the changing and expanding role of International Non-Governmental Organizations (INGOs) in service provision, community and capacity building, policy development and advocacy, all at the global level. The course examines INGOs with particular emphasis on the diversity of organizations, the types of activities in which they are engaged, and how their structures and their political and other activities have combined to increase their role on the global stage.

39.0 Hours

Fee: \$586.10

★ CINP 920 Critical Issues in the Nonprofit Sector

Prerequisites: CINP 900 and CINP 901 and (CINP 902 or CINP 915)

This course offers students opportunities to identify and explore current issues relevant to the nonprofit sector. It presents students with a chance to examine critical issues like sector name and size, the implications of socio-economic and demographic change, changing trust and perception, and blurring boundaries and changing relationships with the public and private sectors. Students will conduct research in areas of their interest, apply theory to practice and contribute to discussions that explore the critical issues.

39.0 Hours

Fee: \$586.10

Politics and Public Administration

★ CPOG 100 People, Power and Politics

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?

39.0 Hours

Fee: \$638.27

★ CPOG 110 Power and Influence in Canadian Politics

Antirequisites: POC 180 and POL 102 and CPPA 120

This course offers an introduction to the processes that underpin Canadian politics and democracy. Against a backdrop of civic participation, the course focuses on the central components of Canadian politics: voting, elections, parties, the media, and interest groups. Topics may include consideration of Indigenous peoples, French-English relations, political culture, regionalism, gender, sexual and ethnic diversity in Canada’s political process. (Canadian)

39.0 Hours

Fee: \$578.79

☆ CPOG 230 Statistics and Social Science

Antirequisite: CPPA 333

The course introduces students to the methods needed to describe and analyze political and social phenomena and events using quantitative data. Students will learn about the process of carrying out research and gain the tools to tell good research and data from bad. The examples used come from contemporary politics and society in Canada and the rest of the world, covering topics like voting, poverty, discrimination, war and others.

39.0 Hours

Fee: \$569.40

☆ CPOG 417 Canadian-American Relations

Prerequisite: POG 210 or (POL 101 and POL 102) or POL 27B or POL 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)

39.0 Hours

Fee: \$569.40

☆ CPOG 444 Politics, Media and Technology

Prerequisite: 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)

Students who do not have the prerequisite but have completed any introductory POG course, or any UPPER level Politics Liberal Studies elective, should contact Viola Ing, at ving@ryerson.ca or Paul Thorne at paul.thorne@ryerson.ca for permission to enrol.

39.0 Hours

Fee: \$569.40

☆ CPOL 106 The Politics of Human Needs

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.

39.0 Hours

Fee: \$588.18

☆ CPOL 128 Politics and Film

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.

39.0 Hours

Fee: \$588.18

☆ CPOL 129 Immigration and Settlement in Canada

Canada is often described as a country of immigrants. By examining Canada's immigrant tradition, this course introduces students to a number of distinctive characteristics of Canada as a political community. Topics and themes include: changes in Canadian immigration policies; immigration and Canadian identity; how global migration is transforming modern politics; and the nature of human rights in an age of migration. Is Canada becoming a uniquely multicultural political community?

39.0 Hours

Fee: \$588.18

☆ CPOL 208 Globalization and World Politics

Antirequisite: POG 225;

Restriction: Not available to International Economics and Finance students

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.)

39.0 Hours

Fee: \$588.18

☆ CPOL 501 Women, Power and Politics

Antirequisite: POG 442

What is the relationship between women, power and politics in our contemporary systems? How are women influencing the output of our political systems, particularly the policies that affect the lives of women and children? This course examines the political, cultural and social factors that affect women's participation in decision making, and asks if the representation gained to date has made a difference and, if so, where do we go from here?

39.0 Hours

Fee: \$577.74

☆ CPOL 507 Power, Change and Technology

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.

39.0 Hours

Fee: \$569.40

☆ CPOL 540 Issues in Third World Politics

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.

39.0 Hours

Fee: \$563.15

☆ CPOL 601 Social Movements and Politics

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.

39.0 Hours

Fee: \$578.79

☆ CPOL 607 Politics of Technology and Globalization

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?

39.0 Hours

Fee: \$569.40

☆ CPOL 620 Sports and Politics

How does sport reflect major social, economic, and political changes? How have scholars used sporting events as well as athlete performance data to test and advance theories from the social sciences? In this course we will look at both of these questions by examining society and politics through the lens of sports, on the one hand, and using sports data to test theories from political science, psychology and economics, on the other.

39.0 Hours

Fee: \$588.18

★ CPPA 101 Cdn Public Administration I: Institutions

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).

39.0 Hours

Fee: \$605.92

★ CPPA 102 Cdn Public Administration II: Processes

Prerequisites: CPPA 101 or PPA 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.)

39.0 Hours

Fee: \$605.92

★ CPPA 120 Canadian Politics and Government

Antirequisites: POG 180, CPOG 110, POG 210, POL 101, POL 102

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)

39.0 Hours

Fee: \$605.92

★ CPPA 121 Ontario Politics and Government

Antirequisite: POG 310 (formerly PPA 522)

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.

39.0 Hours

Fee: \$605.92

★ CPPA 122 Local Politics and Government

Antirequisites: POL 123, POG 410

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.

39.0 Hours

Fee: \$605.92

★ CPPA 124 Indigenous Politics and Governance

Antirequisites: CRM 400 and POG 440

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.

39.0 Hours

Fee: \$605.92

★ CPPA 125 Rights, Equity and the State

Antirequisite: POG 315

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.

39.0 Hours

Fee: \$605.92

★ CPPA 211 Public Policy

Prerequisite: CPPA 102 or CPPA 120 or POL 102 or POG 210 or COPA 103;

Antirequisites: POG 214

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).

39.0 Hours

Fee: \$605.92

★ CPPA 301 Administrative Law

Antirequisite: PPA 702

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).

39.0 Hours

Fee: \$605.92

★ CPPA 303 Financial Management

Prerequisites: CPPA 102 or PPA 422;

Antirequisite: C1NP 915

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).

39.0 Hours

Fee: \$605.92

★ CPPA 319 Politics of Work and Labour

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).

39.0 Hours

Fee: \$605.92

★ CPPA 333 Research Methods in Public Administration

Antirequisites: CACS 401, CPOG 230

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).

39.0 Hours

Fee: \$605.92

★ CPPA 335 Theories of Bureaucracy

Prerequisites: CPPA 102 or PPA 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).

39.0 Hours

Fee: \$605.92

★ CPPA 401 Collaborative Governance

Prerequisites: CPPA 102 or PPA 422 or POG 210;

Antirequisite: PPA 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).

39.0 Hours

Fee: \$605.92

★ CPPA 402 Program Planning and Evaluation

Prerequisites: CPPA 102 or PPA 422;

Antirequisites: INT 900, SWP 932

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).

39.0 Hours

Fee: \$605.92

★ CPPA 404 Issues in Public Administration

Prerequisites: CPPA 102 or PPA 422;

Antirequisite: PPA 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).

39.0 Hours

Fee: \$605.92

NEW!

☆ CPPA 411 Advanced Public Policy

Prerequisites: CPPA 211, CPOG 214

This course assumes knowledge of the policy-making process, both domestic and comparative. It focuses on current challenges in public policy, including “wicked” problems to which policy responses are sought by society and political decision-makers. This course will emphasize more advanced theoretical and methodological underpinnings and tools of policy analysis. The global and interconnected nature of public policy will be examined through the use of selected cases.

39.0 Hours

Fee: \$605.92

★ CPPA 414 Comparative Public Policy

Prerequisite: POG 214 or POG 314 or CPPA 211 or PPA 623;

Antirequisite: 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.

39.0 Hours

Fee: \$605.92

★ CPPA 425 Intergovernmental Relations

Prerequisite: CPPA 102 or PPA 422 or (CPOG 110 and POG 210) or POL 332 or CPPA 120;

Antirequisite: 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).

39.0 Hours

Fee: \$605.92

★ CPPA 501 Public Sector Leadership

Prerequisites: CPPA 211 and CPPA 404;

Antirequisites: CIMP 913, CMHR 640

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.

39.0 Hours

Fee: \$605.92

SOCIAL SCIENCES AND HUMANITIES

Arts and Contemporary Studies

★ CACS 100 Ideas That Shape the World I

This course examines 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 a 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.

39.0 Hours

Fee: \$588.18

Caribbean Studies

🌀 CCRB 100 Introduction to the Caribbean

Antirequisite: SYC 183;

Restriction: Not available to International Economics and Finance students

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

★ CCRB 500 Families in the Caribbean

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

★ CCRB 501 Racism and Caribbean Peoples in Canada

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

★ CCRB 502 Cultural Traditions in the Caribbean

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

★ CCRB 603 Special Topics in Caribbean Studies

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

★ CCRB 605 Caribbean Tourism: Impacts and Resistance

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.

Note: For more information about the Certificate in Caribbean Studies, visit ryerson.ca/ce/caribbean.

39.0 Hours

Fee: \$569.40

Criminology

★ CCRM 100 Introduction to Canadian Criminal Justice

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.)

39.0 Hours

Fee: \$588.18

☆ CCRM 101 Understanding Crime in Canadian Society

Antirequisites: 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 in order to apply the concepts and materials presented throughout the term. CRM 101 is not available for credit to students who choose CRM 102.

39.0 Hours

Fee: \$588.18

★ CCRM 102 Introduction to Criminology

Antirequisite: 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.

39.0 Hours

Fee: \$588.18

★ CCRM 200 Criminal Law

Prerequisite: CCRM 100 or (LAW 534 and in Law and Business or Law and Business Co-op program);

Antirequisite: 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.

39.0 Hours

Fee: \$588.18

★ CCRM 300 Policing in Canada

Prerequisites: 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.

39.0 Hours

Fee: \$569.40

★ CCRM 304 Youth Justice in Canada

Prerequisites: 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.

39.0 Hours

Fee: \$569.40

★ CCRM 306 Corrections in Canada

Prerequisites: 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.

39.0 Hours

Fee: \$569.40

★ CCRM 308 Criminal Courts in Canada

Prerequisites: 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.

39.0 Hours

Fee: \$569.40

☆ CCRM 515 Gendering Justice

Antirequisite: CRM 205

This course draws on feminist theoretical frameworks to explore gendered experiences of Canadian law and the criminal justice system. Students will be introduced to the relationship between gender and the law through a consideration of feminist scholarship on family law, criminal law, poverty law, employment law, and more. The course will advance an intersectional approach that examines how the law structures and is structured by social contexts and socio-demographics, including race, class, and sexuality.

39.0 Hours

Fee: \$569.40

☆ CCRM 601 Violence in Society

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.

39.0 Hours

Fee: \$569.40

English

🌀 CENG 101 Laughter and Tears: Comedy and Tragedy

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.

39.0 Hours

Fee: \$588.18

☆ CENG 104 The Short Story

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.

39.0 Hours

Fee: \$588.18

★ CENG 110 Literatures Across Borders

Antirequisite: ENG 108

Literature shapes and is shaped by the world we live in. It straddles the borders between nations, personal and collective histories, and narrative forms. In this course, students engage with diverse literary forms, themes, locations, and historical contexts; and develop skills for critical analysis and the creation of sustained, organized, and well-reasoned arguments.

39.0 Hours

Fee: \$588.18

🌀 CENG 112 Zap, Pow, Bang: Pop Lit

Antirequisite: ENG 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.

39.0 Hours

Fee: \$588.18

★ CENG 200 Writing as a Cultural Act

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.

39.0 Hours

Fee: \$577.74

☆ CENG 201 Myth and Literature

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.

39.0 Hours

Fee: \$588.18

♻️ CENG 203 The Literature of Indigenous Peoples

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 Indigenous peoples.

39.0 Hours

Fee: \$588.18

★ CENG 208 Introduction to Non-Fiction

Prerequisite: ENG 108 or CENG 110

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.

39.0 Hours

Fee: \$582.97

☆ CENG 212 Cultures in Crisis

Restriction: This course is not available for credit to students in BA English, ACS English Option, English-Philosophy and English-History double major programs

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.

39.0 Hours

Fee: \$588.18

★ CENG 222 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.

39.0 Hours

Fee: \$580.88

☆ CENG 224 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.

39.0 Hours

Fee: \$580.88

★ CENG 503 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.

39.0 Hours

Fee: \$569.40

★ CENG 505 Creative Writing

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.

39.0 Hours

Fee: \$578.79

★ CENG 510 Gothic Horror

Antirequisite: 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.

39.0 Hours

Fee: \$563.15

★ CENG 511 The Art of Writing Life

Antirequisite: ENG 570;

Restriction: This course is not available for credit to students in ACS English Option, BA English, English-Philosophy and English-History double major programs

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.

39.0 Hours

Fee: \$569.40

☆ CENG 602 Women's Writing

Antirequisite: CENG 621;

Restriction: This course is not available for credit to students in ACS English Option, BA English, English-Philosophy and English-History double major programs

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.

39.0 Hours Fee: \$569.40

★ CENG 610 The Language of Love, Sex and Gender

Antirequisite: 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.

39.0 Hours Fee: \$569.40

★ CENG 621 Women's Texts, Global Contexts

Prerequisite: ENG 108 or CENG 110;

Antirequisite: 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.

39.0 Hours Fee: \$569.40

★ CENG 706 Shakespeare and Performance

Prerequisite: ENG 108 or CENG 110

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.

39.0 Hours Fee: \$569.40

French Studies

★CFRS 602 French Caribbean Literature and Culture

This course, taught 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.

39.0 Hours

Fee: \$569.40

History

★ CHIS 105 Inventing Popular Culture

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).

39.0 Hours

Fee: \$635.13

★ CHIS 106 Technology, Warfare and Social Change

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).

39.0 Hours

Fee: \$635.13

★ CHIS 107 Colonization, Colonialism and Independence

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.

39.0 Hours

Fee: \$635.13

☆ CHIS 590 Modern International Relations

Antirequisites: 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).

39.0 Hours

Fee: \$635.13

☆ CHST 118 The City in History

The majority of humanity now lives in urban areas. How, when, and why did people shift from rural to urban life? Using a wide range of sources, this course introduces students to the development of cities and urban cultures from the ancient world to the modern metropolis. It examines both the causes and the effects of urbanization, and considers how people have shaped - and been shaped by - urban environments around the world.

39.0 Hours

Fee: \$612.18

☆ CHST 119 Rise of Empires: History Through Film

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.

39.0 Hours

Fee: \$612.18

☆ CHST 207 Introduction to Ancient Greece and Rome

Antirequisite: HIS 275

This course introduces students to the "Classical" civilizations of Ancient Greece and Rome. It considers the rise of the Greek city-states, the transmission of culture and ideas to Rome and the impact of these cultures on contemporary society.

39.0 Hours

Fee: \$612.18

☆ CHST 211 Century of Revolution: Europe 1789-1914

Antirequisites: 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.

39.0 Hours

Fee: \$588.18

☆ CHST 219 Decolonization: History Through Film

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.

39.0 Hours

Fee: \$612.18

☆ CHST 222 The History of The Caribbean

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.

39.0 Hours

Fee: \$520.36

☆ CHST 325 History of Science and Technology I

Antirequisites: 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.

39.0 Hours

Fee: \$577.74

☆ CHST 501 The American Civil War

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.

39.0 Hours

Fee: \$569.40

☆ CHST 503 Crime and Punishment in Modern Canada

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.

39.0 Hours

Fee: \$569.40

☆ CHST 504 War to War: World Conflict 1900-45

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.

39.0 Hours

Fee: \$569.40

☆ CHST 506 The Ancient Egyptian World

Antirequisite: HIS 559

This course introduces students to the complex civilization that was ancient Egypt (ca. 3500-323 BCE). Through analysis of both material culture and historical records, students will familiarize themselves with ancient Egyptian history, and engage with ancient Egypt beyond the exotic images of mummies and pyramids.

39.0 Hours

Fee: \$569.40

☆ CHST 511 Quebec in Canada: A History

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.

39.0 Hours

Fee: \$563.15

☆ CHST 527 Toronto: Wilderness to Metropolis

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.

39.0 Hours

Fee: \$605.92

☆ CHST 533 Africa Before 1850

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.

39.0 Hours

Fee: \$563.15

☆ CHST 540 Espionage: A Modern History

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.

39.0 Hours

Fee: \$569.40

★CHST 602 Propaganda!

This course examines modern propaganda, a distinctive form that dates to the turn of the twentieth century, and follows its evolution during the World Wars and the Cold War; its application in the First Gulf War; and in the Global War on Terror in response to the 9/11 attacks. Analysis of these events will illustrate propaganda's successes and failures as well as its unintended consequences, from military/political "blowback" to the fueling of conspiracy culture.

39.0 Hours

Fee: \$569.40

☆ CHST 603 The Third Reich

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.

39.0 Hours

Fee: \$569.40

☆ CHST 604 The Uneasy Peace: The Cold War, 1945-90

Antirequisites: HIS 490 and CHIS 590 and HST 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.

39.0 Hours

Fee: \$569.40

☆ CHST 633 Modern Africa

Antirequisites: 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.

39.0 Hours

Fee: \$563.15

☆ CHST 658 Sex in the City

This course addresses how cities have fostered both commercial and noncommercial sexual cultures, sexual communities, and sex districts over time. Students will examine the histories of male and female prostitution, the development of non-heterosexual urban communities, cultures of urban romance, visual representations of sex and cities, and the histories of gender, race, class, politics and culture that structure these issues of sex in the city.

39.0 Hours

Fee: \$569.40

☆ CHST 701 Scientific Technology and Modern Society

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.

39.0 Hours

Fee: \$569.40

☆ CHST 702 The First World War

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.

39.0 Hours

Fee: \$569.40

☆ CHST 711 Canada and the United States

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.

39.0 Hours

Fee: \$569.40

☆ CHST 712 The American City

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.

39.0 Hours

Fee: \$569.40

☆ CHST 777 Medicine from Antiquity to 1500 CE

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.

39.0 Hours

Fee: \$605.92

☆ CHST 787 Astronomy vs Astrology

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.

39.0 Hours

Fee: \$605.92

☆ CHST 802 The Second World War

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.

39.0 Hours

Fee: \$569.40

Music

🔗 CMUS 101 Intro to World and Early European Music

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.

39.0 Hours

Fee: \$588.18

🔗 CMUS 106 The Architecture of Music

While music is everywhere around us in our daily lives, for the listener many of its structural elements are often difficult to identify and appreciate. Through theoretical analysis and experiential learning, this course will provide a range of technical tools for acquiring a thorough grasp of how music is organized and created. Here, students will learn the fundamentals of music notation, develop essential aural skills, and acquire a strong understanding of the tonal system.

39.0 Hours

Fee: \$584.01

🔗 CMUS 201 Introduction to Classical Music

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.

39.0 Hours

Fee: \$588.18

★ CMUS 211 Music Cultures of the City

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.

39.0 Hours

Fee: \$577.74

★ CMUS 501 Music of World Cultures

This course surveys folk, art, and popular musics from around the world. Course content covers musical systems, instruments, performance practices, social structures, and religious belief systems. Musical analysis is integrated with theoretical concepts to develop a cross-cultural appreciation of music, including: race, cultural identity, post-colonialism, and globalization. Musical cultures to be explored may include those of Canada's First Nations, the Caribbean, Brazil, West Africa, Northern Europe, West Asia, India, China, Japan, and Indonesia.

Restriction: TH001, TH002, TH003

39.0 Hours

Fee: \$569.40

★ CMUS 503 Social Issues in Popular Music

This course will examine the relationship between contemporary popular music and social issues. The ways in which popular music addresses, interacts with and intersects identity formation, political movements, technological change, class structures and geography will be among the topics covered. Examples from 20th and 21st century North American and global popular music will be included to illustrate both developments in musical style and music's connection to social change.

39.0 Hours

Fee: \$569.40

★ CMUS 505 Popular Music and Culture

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

Philosophy

🌀 CPHL 101 Plato and the Roots of Western Philosophy

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?

39.0 Hours

Fee: \$588.18

☆ CPHL 110 Philosophy of Religion I

Antirequisite: 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.

39.0 Hours

Fee: \$588.18

☆ CPHL 187 Ancient Greek Philosophy

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.

39.0 Hours

Fee: \$576.70

🌀 CPHL 201 Problems in Philosophy

Antirequisite: PHC 180

This course serves as a problem-based introduction to philosophy. Enduring issues such as 'Do we have free will?', 'What makes you the same person through time and change?', 'Can we know whether God exists or not?', and 'How are mind and body related?' will be explored. Development of student skills in the critical analysis and articulation of reasoning will be emphasized.

39.0 Hours

Fee: \$588.18

☆ CPHL 214 Critical Thinking I

Antirequisites: CSSH 105, PHC 182;

Not available to ACS, Criminology, English, Environmental and Urban Sustainability, Geography, History, GCM, Int'l Econ, Philosophy, Politics and Governance, Psychology, Sociology or Undeclared Arts students.

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.

Restriction: ACO01, CJO01, PGO01, PSo01, SO001, AV001 There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$588.18

★ CPHL 302 Ethics and Health Care

Antirequisite: 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.

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$574.62

☆ CPHL 306 Freedom, Equality, Limits of Authority

Antirequisites: 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.

39.0 Hours

Fee: \$577.74

★ CPHL 307 Business Ethics

Antirequisites: ITM 407, ITM 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.

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$569.40

✪ CPHL 333 Philosophy of Human Nature

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.

39.0 Hours

Fee: \$569.40

✪ CPHL 366 Existentialism and Art and Culture

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.

39.0 Hours

Fee: \$569.40

★ CPHL 400 Human Rights and Justice

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.

39.0 Hours

Fee: \$569.40

☆ CPHL 406 Issues of Life, Death and Poverty

Antirequisite: 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.

39.0 Hours

Fee: \$577.74

★ CPHL 444 Ethics in Health Services Management

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.

39.0 Hours

Fee: \$569.40

★ CPHL 449 Philosophy of Punishment

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.

39.0 Hours

Fee: \$569.40

★ CPHL 500 Philosophy of the Natural Environment

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.

39.0 Hours

Fee: \$563.15

☆ CPHL 501 Oppression and the Critique of Power

This course focuses on the nature of oppression and on the work of those philosophers who have sought to uncover, understand, criticize and resist it. Topics may include: controversies in defining oppression; economic exploitation and the critique of capitalism; the politics of race and post-colonialism; the struggles of Indigenous nations and people; oppression on the basis of sex and/or gender; cultural forms of oppression; intersectional strategies of resistance.

39.0 Hours

Fee: \$563.15

★ CPHL 503 Ancient and Modern Ethics

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.

39.0 Hours

Fee: \$569.40

☆ CPHL 504 Philosophy of Art

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.

39.0 Hours

Fee: \$569.40

★ CPHL 507 Ethics and Disability

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?

39.0 Hours

Fee: \$569.40

★ CPHL 509 Bioethics

Antirequisite: CPHL 302;

Not available to Nursing program students.

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.

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$563.15

☆ CPHL 550 Knowledge, Truth and Belief

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.

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$569.40

☆ CPHL 551 Metaphysics

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.

39.0 Hours

Fee: \$569.40

★ CPHL 603 Modern and Contemporary Ethics

Prerequisite: CPHL 306 or CPHL 406 or CPHL 503 or CPHL 612

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.

39.0 Hours

Fee: \$569.40

☆ CPHL 605 Existentialism

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.

39.0 Hours

Fee: \$569.40

☆ CPHL 606 Philosophy of Love and Sex

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?

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$569.40

★ CPHL 612 Philosophy of Law

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 examine diverse perspectives on law, such as natural law, legal positivism, feminist legal theory, and other critical theories. Themes to be covered include: equality, expressive, liberty and religious rights, as well as legal interpretation. There will be a focus on debates over the legal regulation of contested social practices.

There will be an on-campus exam for the distance offering of this course; however, arrangements can be made for those students who live more than 100 km from the Ryerson campus. For more information, visit Off-Campus Exam FAQ.

39.0 Hours

Fee: \$569.40

★ CPHL 614 Philosophy of Human Rights

Are human rights universal? How are human rights negotiated across cultural differences? Have civil and political rights been privileged over social and economic rights? What happens when basic rights conflict? Themes covered may include the relationship of the individual to the state and the role of the media. This course critically examines the works of contemporary philosophers and their diverse accounts of human rights, and critiques including the perspectives of cultural relativism and feminist theory.

39.0 Hours

Fee: \$635.13

☆ CPHL 709 Religion, Science and Philosophy

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.

39.0 Hours

Fee: \$569.40

☆ CPHL 710 Philosophy and Film

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?

39.0 Hours

Fee: \$569.40

☆ CPHL 808 Language and Philosophy

This course will examine philosophical issues regarding both the nature of language and the relation of language to other matters. The first group includes topics such as: What distinguishes linguistic communication from other types of communication? How do metaphors work? In what ways is language rule-governed? The latter group might include: How are thought and language related? How is language related to gender? To personal identity? To rationality or reason?

39.0 Hours

Fee: \$638.82

☆ CPHL 923 Philosophy of Religion II

Prerequisite: 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.

39.0 Hours

Fee: \$578.79

Psychology

★ CPSY 102 Introduction to Psychology I

Antirequisite: CPSY 105

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.

39.0 Hours

Fee: \$588.18

☉ CPSY 105 Perspectives in Psychology

Antirequisite: CPSY 102

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.

Students may not enrol in CPSY 105 if they are also taking or have already passed PSY 11B or PSY 11.

39.0 Hours

Fee: \$588.18

★ CPSY 202 Introduction to Psychology II

Prerequisite: CPSY 102 or CPSY 105

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.

39.0 Hours

Fee: \$588.18

★ CPSY 214 Psychopharmacology

Prerequisite: CPSY 105 or CPSY 102;

Antirequisite: CPSY 607

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.

39.0 Hours

Fee: \$563.15

★ CPSY 215 Psychology of Addictions

Prerequisite: CPSY 105 or CPSY 102

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.

39.0 Hours

Fee: \$569.40

★ CPSY 300 Psychology and Law

Prerequisite: CPSY 105 or CPSY 102

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.

39.0 Hours

Fee: \$569.40

★ CPSY 302 Child Development

Prerequisite: CPSY 102 or CPSY 105;

Antirequisites: CCLD 204, CCLD 205, CCLD 206

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.

39.0 Hours

Fee: \$577.74

⊕ CPSY 304 Psychology of Gender

Prerequisite: CPSY 102 or CPSY 105;

Antirequisite: PSY 535

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.

39.0 Hours

Fee: \$577.74

⊕ CPSY 308 Psychology of Thinking

Antirequisite: PSY 108

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.

39.0 Hours

Fee: \$577.74

★ CPSY 324 Biological Psychology

Prerequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 325 Psychological Disorders

Prerequisite: CPSY 105 or CPSY 102;

Antirequisite: 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., biological, behaviourist, sociocultural). Disorders to be discussed include (but are not limited to) depressive disorders, anxiety disorders, schizophrenia, personality disorders, and eating disorders. In addition, the course includes consideration of cross-cultural factors, and ethical issues.

39.0 Hours

Fee: \$569.40

★ CPSY 335 Clinical Psychology

Prerequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 402 Adult Development

Prerequisite: CPSY 105 or CPSY 102

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.

39.0 Hours

Fee: \$569.40

★ CPSY 411 Research Methods and Statistics I

Prerequisites: 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. This course is intended for students enrolled in the full-time BA psychology degree program or a psychology certificate.

39.0 Hours

Fee: \$569.40

★ CPSY 504 Social Psychology

Prerequisite: CPSY 105 or CPSY 102;
Antirequisite: CPSY 124

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. 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.

39.0 Hours

Fee: \$563.15

★ CPSY 505 Personality Theory

Prerequisite: 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.

39.0 Hours

Fee: \$569.40

☆ CPSY 511 Research Methods and Statistics II

Prerequisite: CPSY 411;
Antirequisite: PSY 711

This course continues from PSY 411 by covering more concepts and analyses commonly used in psychology research. Topics include one- and two-factor Analysis of Variance (ANOVA), multiple comparison techniques, multiple regression, and various measures of effect size. A statistical software package (e.g., SPSS) is used throughout the course. This course is intended for students enrolled in the full-time BA psychology degree program or a psychology certificate.

39.0 Hours

Fee: \$569.40

★ CPSY 602 Developmental Psychopathology

Prerequisites: [CPSY 302 and (CPSY 102 or CPSY 105)] or [two of CCLD 204, CCLD 205, CCLD 206]

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.

39.0 Hours

Fee: \$569.40

★ CPSY 605 Psychology of Health and Health Care

Prerequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 606 Abnormal Psychology

Prerequisite: CPSY 105 or CPSY 102;
Antirequisite: 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.

39.0 Hours

Fee: \$563.15

★ CPSY 607 Drugs and Human Behaviour

Prerequisite: CPSY 105 or CPSY 102;
Antirequisite: 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.

39.0 Hour

Fee: \$569.40

NEW!

★ CPSY 612 Independent Study

Department Consent Required

This course is an opportunity for students to work with an individual faculty member on a research project, review paper or other activity that provides an in-depth experience in a specific area of psychology. Topics and format will be determined on a case by case basis.

This course is restricted to certificate students who have completed all other certificate requirements. Before you enrol in CPSY 612, you should contact Brian Rabinowicz, Academic Coordinator (at brabinow@ryerson.ca or 416-979-5000, ext. 6195) at least one week prior to the start date in Fall or Winter term, to be assigned a faculty advisor from the Department of Psychology.

39.0 Hours

Fee: \$569.40

★ CPSY 614 Psychology of Sport

Prerequisite: CPSY 105 or CPSY 102;
Antirequisite: PSY 560

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.

39.0 Hours

Fee: \$569.40

★ CPSY 621 Psychology of Human Sexuality

Prerequisite: CPSY 105 or CPSY 102;

Antirequisite: PSY 550

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.

39.0 Hours

Fee: \$569.40

★ CPSY 622 The Psychology of Criminal Behaviour

Prerequisites: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 682 Sleep

Prerequisites: CPSY 105 or CPSY 102

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.

39.0 Hours

Fee: \$569.40

★ CPSY 706 Personal Growth and Positive Psychology

Prerequisite: 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).

39.0

Hours

Fee:

\$563.15

★ CPSY 707 Models of Stress and Adaptation

Prerequisite: CPSY 105 or CPSY 102;

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 802 Death, Dying and Bereavement

Prerequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 805 Adjustment, Stress and Coping

Prerequisite: CPSY 105 or CPSY 102;

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

★ CPSY 808 Community Psychology

Prerequisite: 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.

39.0 Hours

Fee: \$563.15

Religious Studies

☆ CREL 101 Introduction to World Religions

This course is a survey of the history, social and political context, beliefs, practices, and influence of the major religious traditions of the world. The course will introduce students to the religions of Indian origin (Hinduism, Buddhism, and Sikhism), the religions of Chinese origin (Confucianism, Taoism, and Chinese Buddhism), and the religions of Semitic origin (Judaism, Christianity, and Islam). This course presupposes no religious or anti-religious perspective.

39.0 Hours

Fee: \$588.18

Social Science and Humanities

☉ COPH 200 Ethics Capstone Course

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.

This course may be taken as individualized study/directed reading; please contact the Academic Coordinator, Dr. Thomas Hart, at acphilosophy@ryerson.ca prior to enrolling.

39.0 Hours

Fee: \$802.71

★ CSSH 100 Inquiry and Problem-Solving

This course will introduce students to social scientific research as an approach to problem-solving. The focus will be on the ways different approaches to social scientific inquiry can contribute to making sense of the world around us. Students will engage in experiential learning, using the tools of social scientific inquiry to critically examine everyday assumptions about the way the world works, and acquire key skills for self-directed learning.

39.0 Hours

Fee: \$578.79

★ CSSH 105 Critical Thinking I

Antirequisite: 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)

39.0 Hours

Fee: \$578.79

★ CSSH 205 Academic Writing and Research

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.

39.0 Hours

Fee: \$578.79

★ CSSH 301 Research Design and Qualitative Methods

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)

39.0 Hours

Fee: \$578.79

★ **CSSH 502 Community Action Research**

This course connects the classroom with the community to explore questions at the forefront of social research and community development. Students will be introduced to ways of thinking and scholarship that cut across disciplines, combine theory and practice, encourage collaboration, and work with the ambiguities of the real world. Students will strengthen their self-awareness, leadership skills, and capacities to research and communicate effectively about complex social issues.

39.0 Hours

Fee: \$578.79

☆ **CSSH 505 Making the Future**

This course focuses on areas such as health, innovation and entrepreneurship, religion, philosophy, diversity, and public engagement that present issues or opportunities for Canada in the future. Students will be challenged to imagine how these fields might change and what role they could play in achieving these transformations. Through presentations by experts in the field and weekly discussions, students will take up the challenge of making a future for Canada and themselves.

39.0 Hours

Fee: \$578.79

Sociology

☆ **CSOC 103 How Society Works**

Antirequisites: CSOC 104, CSOC 105, SOC 11 A/B, SOC 111, SOC 112; Not available to students in the following programs: Child and Youth Care, Early Childhood Studies, Nursing, Social Work, Sociology, Urban and Regional Planning

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.

39.0 Hours

Fee: \$588.18

☆ **CSOC 104 Understanding Society**

Antirequisites: SOC 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.

39.0 Hours

Fee: \$588.18

★ **CSOC 105 Introduction to Sociology**

Antirequisites: SOC 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.

39.0 Hours

Fee: \$638.27

☆ **CSOC 202 Popular Culture**

Antirequisite: 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.

39.0 Hours

Fee: \$588.18

☆ CSOC 203 Social Class and Inequality

Antirequisite: 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.

39.0 Hours

Fee: \$588.18

★ CSOC 502 Violence and the Family

Prerequisite: SOC 11B or CSOC 103orCSOC 104orCSOC 105orCSOC 107or 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.

39.0 Hours

Fee: \$569.40

☆ CSOC 506 Health and Society

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.

39.0 Hours

Fee: \$569.40

☆ CSOC 507 Race and Ethnicity in Canadian Society

*Antirequisites: SOC 300, POG 313;
Not available to Journalism program students*

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.

39.0 Hours

Fee: \$569.40

☆ CSOC 603 Sociology of Gender

Antirequisite: SYC 200

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.

39.0 Hours

Fee: \$569.40

☆ CSOC 605 Families: Difference and Diversity

*Prerequisite: SOC 11B or CSOC 103orCSOC 104orCSOC 105 or SOC 111 or Direct Entry;
Antirequisites: SOC 21B, FNF 520*

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.

39.0 Hours

Fee: \$569.40

☆ CSOC 606 Work and Families in the 21st Century

*Prerequisites: SOC 11B or CSOC 103orCSOC 104orCSOC 105 or SOC 111 or Direct Entry;
Antirequisites: SOC 21B, FNF 520*

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.

39.0 Hours

Fee: \$569.40

★ CSOC 608 Women, Power and Change

*Prerequisite: SOC 11B or CSOC 103orCSOC 104orCSOC 105or SOC 111 or Direct Entry;
Antirequisite: 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.

39.0 Hours

Fee: \$569.40

☆ CSOC 633 Sex, Gender Identities and Sexualities

Antirequisite: CINT 906

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?

39.0 Hours

Fee: \$569.40

★ CSOC 808 Sociology of Food and Eating

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.

39.0 Hours

Fee: \$569.40

☆ CSOC 880 Information Technology and Society

Antirequisite: 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.

39.0 Hours

Fee: \$569.40

☆ CSOC 885 Women and Islam

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.

39.0 Hours

Fee: \$569.40

Spanish Studies

★ CSPS 502 Spanish Caribbean Literature and Culture

This course, taught 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.

39.0 Hours

Fee: \$569.40

Spanning the Gaps

CYSG 110 Academic Preparation

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.

27.0 Hours

Fee: \$257.91

CYSG 170 Academic Success Foundations V

Department Consent Required

Making connections between academic texts and presenting them confidently in a university environment is an ongoing challenge for university students. This workshop provides creative learning strategies that build confidence and skill in making and articulating connections between course concepts. It also provides practical tools for the development of a mindset that supports academic success throughout students' academic careers. Course activities build self-efficacy, analytical thinking, and academic writing skills with wide application to university-level courses.

27.0 Hours

Fee: \$216.28

International University Foundation Program

CIUF 110 Math Foundations I

Department Consent Required

This course will support you through MHF4U. You will investigate the properties of polynomial, rational, logarithmic, and trigonometric functions; develop techniques for combining functions; broaden your understanding of rates of change; and develop facility in applying these concepts and skills. You will also refine your use of the mathematical processes necessary for success in senior mathematics.

78.0 Hours

Fee: \$0.00

SUSTAINABILITY, PLANNING, AND THE ENVIRONMENT

Environment and Urban Sustainability

★ CEUS 102 Environment and Sustainability

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.

39.0 Hours

Fee: \$645.57

★ CEUS 202 Sustaining the City's Environments

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.

39.0 Hours

Fee: \$645.57

★ CEUS 650 Waste and Waste Management

This course introduces the student to the world of waste management by developing a solid background in the categories of waste, and the political and economic, as well as environmental, rationales behind the adoption and promotion of international and Canadian waste management systems. The students will have an opportunity to develop waste audits as well as experience firsthand waste management systems in action.

39.0 Hours

Fee: \$645.57

Environmental Sciences

🔗 CKES 120 Environmental and Atmospheric Processes

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.

39.0 Hours

Fee: \$917.90

🔗 CKES 160 Waste Management

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.

39.0 Hours

Fee: \$917.90

🔗 CKES 170 Water Treatment

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.

39.0 Hours

Fee: \$917.90

🔗 CKES 180 Site Assessment

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.

This course will run during the Fall break.

39.0 Hours

Fee: \$917.90

🔗 CKES 190 Renewable Energy and Green Technology

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.

39.0 Hours

Fee: \$917.90

🔗 CKES 210 Applied Environmental Analysis

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 of environmental situations.

39.0 Hours

Fee: \$917.90

🔗 CKES 220 Environmental Law and Practice

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.

39.0 Hours

Fee: \$917.90

Facility and Property Management

★ CDFM 102 Facility Management Fundamentals

In this introductory course, students will learn about the development of facility management as a profession and the challenges and opportunities arising from the multifaceted role the facility manager must play in an organization. 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. This course prepares the student for more in-depth topics in other courses. (Equivalent to IDE 311.)

39.0 Hours

Fee: \$700.58

🔗 CDFM 103 Project Planning, Design, and Management

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.

39.0 Hours

Fee: \$795.51

🔗 CDFM 104 Building Operations and Maintenance

Facility managers become involved in physical building issues whether their company owns their own building or they are a tenant. 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 and environmental health, risk and security, service contract management, sustainability, commissioning, and facility planning.

39.0 Hours

Fee: \$795.51

🔗 CDFM 105 Space Planning and Management

This course outlines the critical areas to provide an effective work environment for your organization. Students will learn current techniques applied to the planning and management of office space, concepts used in office accommodation space requirement survey and reporting, and the various planning principles for systems and conventional office planning. Space standardization programs and the importance of good planning and its relationship to modern communications techniques are reviewed in application to new and existing facilities.

39.0 Hours

Fee: \$795.51

☉ CDFM 106 Leadership, Strategy, Business

Facility management has developed into much more than a technical role. The facility manager's ability to function within their organization at the same level as other senior managers is crucial to successfully delivering leading facilities services and solutions for their organization. This course will cover the crucial skills of providing leadership, developing strategy, applying business principles, and understanding and managing finances and budgets as it relates to the delivery of facility management services and the facility manager's role.

39.0 Hours

Fee: \$795.51

☉ CDFM 107 Recruiting and Managing Employees and Procuring Contractors

The delivery of facility services relies on both employees and service contractors to meet the needs of an organization. The ability to hire, procure, and effectively manage resources influences the level of service delivery and achievement of objectives. This course covers both employees and subcontracted resources; the ideal framework elements for procurement of services and managing service contractors; and methods for establishing job descriptions, hiring and training employees, as well as evaluating and managing their performance.

39.0 Hours

Fee: \$795.51

☉ CDFM 110 Leasing and Lease Administration

Most facility managers are involved with leasing at some point, whether you are leasing from a landlord, leasing to tenants, manage roof top leases, or cafeteria leases. This course will provide students with the knowledge of lease documents, clauses, issues and considerations when conducting leasing activities, including how to work with brokers. In addition, the processes for lease administration from the lessee and lessor perspective will be covered.

19.5 Hours

Fee: \$383.85

☉ CDFM 110 Leasing and Lease Administration

Most facility managers are involved with leasing at some point, whether you are leasing from a landlord, leasing to tenants, manage roof top leases, or cafeteria leases. This course will provide students with the knowledge of lease documents, clauses, issues and considerations when conducting leasing activities, including how to work with brokers. In addition, the processes for lease administration from the lessee and lessor perspective will be covered.

19.5 Hours

Fee: \$383.85

☉ CDFM 111 Capital and Asset Management

The facilities assets, including buildings or furniture and tenant improvements, is a large investment by your company and needs to be managed to protect the value and preserve its function for your company. This course will outline the methods of tracking and managing assets as well as developing capital asset replacement and renewal plans using performance and condition information.

19.5 Hours

Fee: \$383.85

☉ CDFM 113 Sustainability in Facilities

Sustainability in facility management is important due to the large environmental impacts and energy consumption of modern facilities. While sustainability should be integrated within other processes and decision making activities, this course provides the key areas of expertise and knowledge for this important topic by discussing technical solutions, supplies and consumables, and process, as well as how to justify and sell sustainability initiatives to your organization and your occupants.

19.5 Hours

Fee: \$383.85

☉ CDFM 114 Real Estate Planning and Development

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.

19.5 Hours

Fee: \$383.85

Planning

★ CPLE 795 Local Economic Development Fundamentals

This course introduces learners to the basics of local economic development. The course provides a historical overview of the profession and roles EDP's play in the local economy. The course focuses on the spectrum of LED activities for EDP's: strategic planning, LED marketing, economic impact analysis and KPIs, foreign direct investment and strategic alliances, business retention and expansion, investment readiness, tourism development and urban renewal, governance, ethics and public relations, among other topics.

39.0 Hours

Fee: \$616.36

☆ CPLE 825 Planning Design and Technology

This course introduces students to principles and concepts pertinent to developing geographic information systems (GIS) and to utilizing those systems in a variety of urban planning projects. Students will develop or update their working knowledge of GIS software and will apply it to an individual project. By the completion of the course students will be able to assess the suitability of technology such as GIS to support planning tasks.

39.0 Hours

Fee: \$616.36

☆ CPLE 845 Selected Topics in Planning

This one semester course will address current topic relevant to the practice and profession of planning.

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. Registered certificate program students without the course prerequisites who wish to take this course may contact ce@ryerson.ca for more information.

39.0 Hours

Fee: \$586.10

☆ CPLE 895 Conflict Resolution and Dispute Negotiation

Prerequisite: PLG 420 or in UP002 or UP003;

Antirequisite: 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.

39.0 Hours

Fee: \$581.93

★ CPLE 995 Ecn Development and Business Improvement

Prerequisite: CPLE 795

This course builds on the foundation laid in PLE 795 by adding specialized topics and techniques that are deployed by economic development professionals, including entrepreneurship ecosystems, municipal planners and EDP's relationship, business improvement areas and their role in LED and sustainable business succession strategies for communities among other topics.

39.0 Hours

Fee: \$616.36

❖ CVUP 100 Foundations of Planning

Department Consent Required

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.

75.0 Hours

Fee: \$1189.52

CVUP 110 Digital Government and Civic Tech

Designed for public servants, this course helps government innovators learn how to lead digital-driven change in the public sector. With a strong focus on case studies and practical applications, this course will cover emerging best practices in digital government including prototyping, human-centred design, and agile project management. By the end of the course, students will be familiar with the tools, methods, and processes of digital government and be able to identify opportunities to apply them to their own work.

21.0 Hours

Fee: \$430.64

CVUP 115 Planning Active Transportation

This course explores active transportation (walking and cycling) as a key component in the planning and design of cities. The course gives an overview of related policy and technical standards, positions public space design as a health equity issue, and focuses heavily on participatory design and community engagement. Case studies illustrate best practices and challenges across a range of environments. The course is designed for built environment professionals and students from a variety of disciplines.

21.0 Hours

Fee: \$430.64

❖ CVUP 155 LED Applied Research Project

Prerequisite: (PLE 745 or CPLE 795) and (CPLE 845 or CPLE 995)

This course is an applied research paper focused on core LED topics learned in CPLE 745/PLE 745. A key outcome of a municipal LED case study will be an analysis of how community members can be engaged and mobilized on an issue or initiative for community benefit and how community leadership can be activated and supported in that endeavour.

30.0 Hours

Fee: \$751.71

❖ CVUP 160 Capstone Project in LED

Prerequisite: (PLE 745 or CPLE 795) and (CPLE 845 or CPLE 995)

This course is a capstone project that builds on the topics learned in CPLE 745/PLE 745 and CPLE 845/PLE 845. Groups of students will be formed. Students will be provided an LED project that reflects a specific challenge in a community. 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.

30.0 Hours

Fee: \$751.71

Sustainability Management

✦ CKSS 100 Fundamentals in Sustainability I

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.

This course will run during the Winter break.

39.0 Hours

Fee: \$917.90

✦ CKSS 101 Fundamentals in Sustainability II

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.

This course will run during the Winter break.

39.0 Hours

Fee: \$917.90

✦ CKSS 210 Lean Six Sigma Contin Improvement

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.

39.0 Hours

Fee: \$917.90

✦ CKSS 211 Lean Six Sigma Sust Bus Enterprise

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.

39.0 Hours

Fee: \$917.90

CKSS 999 Sustainability Management Fast Track

This intensive program offers students a fast track to completion of the Certificate in Sustainability Management and Enterprise Process Excellence. Participants will complete all four required courses and two preselected elective courses required to earn the certificate.

234.0 Hours

Fee: \$5363.76