

Certificate Programs

Build real-world knowledge and career skills. Certificates offer university-level studies in your area of interest.

[How to Register for a Certificate Program](#)

[Certificate Registration Policies](#)

Aboriginal Knowledges and Experiences	Design for Arts and Entertainment	Information Systems Management
Accounting – Finance	Digital Art Production	Landscape Design
Advanced Accounting	Disaster and Emergency Management	Leadership in Organizations
Advanced Applied Digital Geography and GIS	Economics	Lighting Design
Advanced Architecture	Economics and Finance	Local Economic Development
Advanced Enterprise Architecture and Infrastructure Management	Economics: Fundamentals	Media Writing Fundamentals
Advanced International Trade Management	Economics: Theory and Applications	Mental Health and Addictions
Advanced Nursing Leadership and Management	Energy Management and Conservation	Music: Global and Cultural Contexts
Advanced Public Administration and Governance	English Literature and Popular Culture	News Studies
Advanced Safety Management	Entering Foreign Markets	Nonprofit and Voluntary Sector Management
Aging and Gerontology	Entrepreneurship and Small Business	Occupational Health and Safety
Applied Digital Geography and GIS	Environmental Sciences	Occupational Health and Safety Leadership
Architecture	Ethics	Photography Studies
Business Communication	Facility and Property Management	Privacy, Access, and Information Management
Business Decision Analysis	Fashion Coordination and Styling	Proficiency in French
Business French and Translation	Film Studies	Proficiency in Spanish
Business Management	Financial Mathematics Modeling and Predictive Analytics	Project Management
Canadian Dietetic Knowledge Competencies	Financial Planning	Project Management for Technical Professionals
Canadian Social Work Practice	Food Security	Psychology
Caribbean Studies	Foundations of International Management	Public Administration and Governance
Community Engagement, Leadership, and Development	Fundamentals of Interior Design	Public Administration and Leadership
Computer Programming Applications	Fundraising Management	Public Relations
Computer Security and Digital Forensics	Graphic Communications	Publishing
Crime Analytics	Health Informatics	Retail Management
Criminal Justice and Criminology	Health Services Management	Robotics and Embedded Systems
Data Analytics, Big Data, and Predictive Analytics	Health Studies	Social Sciences and Humanities Foundations
Demographic Analysis	Human Resources Management	Strategic Marketing
Design Management	Image Arts (with specializations in Film Studies or Photography Studies)	Sustainability Management and Enterprise Process Excellence

Aboriginal Knowledges and Experiences

Certificate



Explore, analyze, and reflect on the experiences of Aboriginal Peoples in Canada and their relationship with non-Aboriginal people. Develop an understanding of these relationships by learning about Aboriginal history, governance, literature, community relations, health, well-being, and land use.

There are increasing opportunities related to working with Aboriginal Peoples and communities in social services and the fields of education, health, fashion, business, and land use. Many employers are looking for knowledgeable individuals to work with Aboriginal Peoples in respectful and collaborative ways.

This award-winning program addresses Ryerson University's commitment to increasing Aboriginal participation in post-secondary education. This goal is indicated in the Ontario Government's [Aboriginal Postsecondary Education and Training Policy](#) as well as Ryerson's commitment to implementing the Truth and Reconciliation Commission of Canada: Calls to Action.

This program received the 2017 CAUCE Award for Credit Programming over 48 Hours. This award-winning program can be completed entirely online.

What Will You Learn?	+
Industry and Careers	+
Who Should Take This Certificate?	+
Who Teaches the Courses?	+
Our Partners	+
Certificate Requirements	—

- 2 required courses*
- 4 electives

Required Courses —

[CINT 922 Intro to Aboriginal Worldviews](#)

[CINT 923 Canada's Story: An Aboriginal Perspective](#)

Electives (select 4) —

[CCLD 450 Indigenous Early Learning](#)

[CCYC 905 An Indigenous Perspective on CYC](#)

[CENG 203 The Literature of Indigenous Peoples](#)

[CENG 511 The Art of Writing Life](#)

[CFNY 510 Indigenous Food Systems in Canada](#)

[CINT 910 First Nations Issues](#)

[CMWF 108 Aboriginal Childbearing](#)

[CNPF 574 Aboriginal Visual Culture in Canada](#)

[CPPA 124 Indigenous Politics and Governance](#)

[CSWP 925 Strong Helpers' Teachings](#)

[CSWP 933 Indigenous Health and Well Being](#)

[CVSW 932 Aboriginal Knowledges in Practice](#)

- Cumulative grade point average (GPA) 1.67+

*If you are an undergraduate student who has completed SWP 435, you may apply for a course substitution towards CINT 922. However, if you complete INT 922/CINT 922, you may not apply for a course substitution towards SWP 435.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 70 percent

OR

- Mature student status

Note: If you do not meet the above stated admission criteria, you may seek advice and assistance from Spanning the Gaps – Access to Post-Secondary Education and Community Engagement or from [Ryerson Aboriginal Student Services](#) [↗](#).

Experiential Learning +

Testimonials +

Frequently Asked Questions +

Awards and Financial Aid +

Contact Us +

Accounting – Finance


Certificate



Looking to break into the field of accounting?

Our Certificate in Accounting – Finance will give you a solid understanding of current accounting principles and practices in Canada. Upon completion of the program, you will be equipped with the accounting background required for entry-level positions and prepared to pursue higher levels of certification.

This program:

- can be completed online or in-class
- is eligible for OSAP
- is comprised of degree credit courses
- includes courses that support admission to the [CPA Professional Education Program](#) 
- offers Ryerson undergraduate students who are minoring in Accounting or Finance an opportunity to complete courses in the evening or online
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

What Will You Learn?

+

Who Should Take This Certificate?

+

Required Courses

—

[CACC 110 Financial Accounting](#)

[CACC 410 Management Accounting](#)

[CACC 414 Intermediate Accounting I](#)

[CACC 514 Intermediate Accounting II](#)

[CFIN 300 Managerial Finance I](#)

[CFIN 401 Managerial Finance II](#)

Electives (select 2)

—

[CACC 504 Accounting Cases and Concepts I](#)

[CACC 521 Auditing](#)

[CACC 522 Taxation for Managers and Financial Planners](#)

[CFIN 502 Personal Financial Planning](#)

[CITM 102 Business Information Systems I](#)

[CLAW 122 Business Law](#)

[CQMS 102 Business Statistics I](#)

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 6 required courses*
- 2 electives
- Cumulative grade point average (GPA) 1.67+

*If you are an internationally educated professional who has received a waiver from CPA Ontario for CACC 110 and CACC 410, you may apply to the academic coordinator to waive these courses. If granted a waiver, you will need to complete 4 electives (instead of 2) to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience in business

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Recommended Course Sequence +

Professional Designations and Accreditation +

Testimonials +

Frequently Asked Questions +

Awards and Financial Aid +

Contact Us +

Advanced Accounting


Certificate



Continue on your path to becoming a Chartered Professional Accountant (CPA) with our Certificate in Advanced Accounting. Building on the [Certificate in Accounting – Finance](#), this program supports your career advancement in developing your technical skills in managerial accounting, finance, taxation, and IT accounting systems.

The six courses in this certificate will hone your analytical and decision-making skills, empowering you to make financial recommendations that are feasible, ethical and adhere to professional standards.

This program:

- offers in-class learning
- is eligible for OSAP
- is comprised of [CPA preparatory courses](#) 
- is comprised of degree credit courses that can be used by Ryerson undergraduate students who are completing a minor in Accounting or Finance at the Ted Rogers School of Management

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Course Schedule +

Professional Designations and Accreditation +

Frequently Asked Questions +

Required Courses

[CACC 703 Advanced Financial Accounting](#)

[CACC 742 Canadian Business Taxation I](#)

[CACC 801 Intermediate Cost and Management Accounting](#)

[CACC 842 Canadian Business Taxation II](#)

[CITM 696 Accounting Information Systems](#)

[CLAW 603 Advanced Business Law](#)

Next Offered: Spring/Summer 2020

Certificate Requirements



- 6 required courses
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria




Required:

- [Certificate in Accounting – Finance](#) or equivalent

AND

- All of the following courses or equivalents:
 - [CACC 504](#)
 - [CITM 102](#)
 - [CLAW 122](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid

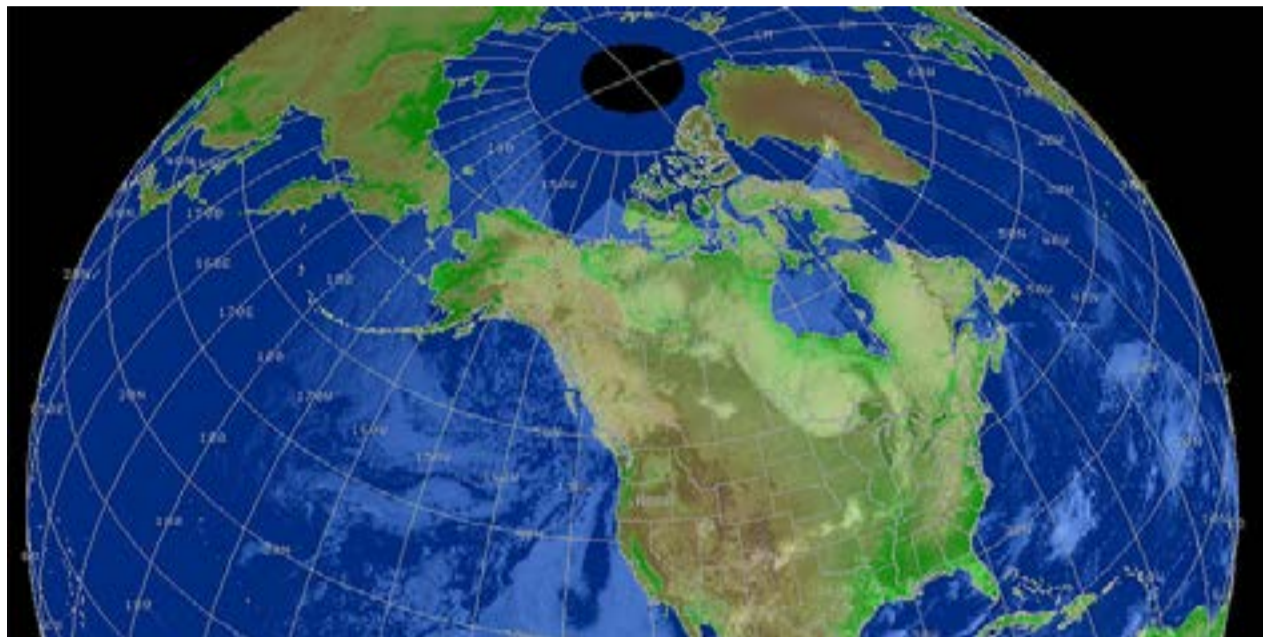


Contact Us



Advanced Applied Digital Geography and GIS

Certificate



This advanced certificate builds on the Certificate in Applied Digital Geography and GIS to provide greater conceptual understanding and technical expertise in an increasingly complex industry.

Upgrade your knowledge and skills through highly technical specialty courses in:

- spatial database management systems
- advanced programming
- spatial statistics
- GIS web services

Project-based courses consolidate the in-depth conceptual knowledge and complex skills learned in your previous courses.

Take advantage of the state-of-the-art GIS facilities offered by Ryerson University's Department of Geography and Environmental Studies – a leader in GIS education in Canada.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 6 required courses
- 1 elective*
- Cumulative grade point average (GPA) of 1.67+

Required Courses – First Level -

[CODG 210 Spatial Database Management Systems](#)

[CODG 211 Advanced GIS Programming](#)

[CODG 212 Spatial Statistical Methods](#)

[CODG 213 Internet GIS](#)

Required Courses – Second Level (select 1 or 2) -

You may select 1 or both of the following courses. If you choose 1, you need to complete 1 course from the Electives to fulfill the certificate requirements.

[CODG 220 GIS Implementation](#)

[CODG 221 GIS Project](#)

Electives (select 1) -

This category only applies if you select 1 course from the Required Courses – Second Level. If you choose both courses, you do not need to complete this category.

[CODG 130 Legal and Ethical Issues in GIS and Digital Data](#)

[CODG 131 Issues and Innovations](#)

[CODG 132 Customizing GIS](#)

[Software: Applications Programming](#)

Next Offered: Fall 2020

[CODG 133 Map Algebra: Topology and Overlay](#)

[CODG 135 Digital Image Processing and Applications](#)

[CODG 136 Web Mapping](#)

*The elective category only applies if you select 1 course from the Required Courses – Second Level category. If you choose both courses, you do not need to complete this category.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Required:

- [Certificate in Applied Digital Geography and GIS](#) or equivalent

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be presented to the academic coordinator during the [Open House](#) or mailed to the address on the form.

Admission Interview/Placement Assessment

You must also complete an interview with the academic coordinator to facilitate assessment of prior learning. Official documentation of English proficiency may be required if English is not your first language.

Awards and Financial Aid +

Contact Us +

Advanced Architecture

Certificate



If you have completed your [Certificate in Architecture](#) or are actively engaged in an architectural field, this advanced certificate can help take your career to the next level.

Develop skills in communication, computer-aided architectural drawing using AutoCAD, sustainable building practices, and architectural preservation and conservation. Explore related topics through electives in entrepreneurship and strategy, specifications, modeling and rendering, project management, and more.

This certificate fulfills the educational requirements for accreditation as an architectural technologist through the Association of Architectural Technologists of Ontario (AATO). You may also be interested if you hold a non-Canadian diploma and are seeking Canadian qualifications in the architectural field.

Attend an In-Person Information Session

Thursday, April 16, 2020
4:00 p.m.–6:00 p.m. EST
Ryerson University

RSVP [↗](#)

Required Courses —

[CCMN 432 Communication in the Engineering Professions](#)

Next Offered: Spring/Summer 2020

[CKAR 215 Computer-Aided Architectural Drawing](#)

[CKAR 500 Sustainable Buildings](#)

[CKAR 601 Building Science for Architectural Preservation and Conservation](#)

Electives (select 2) —

[CENT 500 New Venture Startup](#)

[CKAR 203 Specifications and Contractual Documents](#)

[CKAR 209 Digital Graphics for Architecture and Design](#)

[CKAR 785 Building Info Modelling \(REVIT\)](#)

[CKDA 610 Digital Architectural Modelling](#)

[CKDA 611 Digital Architectural Rendering](#)

[CKPM 214 Project Development and Control](#)

[CTEC 210 Fundamentals of Project Management](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Professional Designations and Accreditation +

Certificate Requirements —

- 4 required courses
- 2 electives

- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

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Required:

- [Certificate in Architecture](#)

OR

- Equivalent academic qualifications and relevant work experience

Awards and Financial Aid

+

Frequently Asked Questions

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Contact Us

+

Advanced Enterprise Architecture and Infrastructure Management

Certificate

Hot Careers Spotlight: The Enterprise Architect



"If you're going to translate business requirements into technology specifications, then you need enterprise architects ... People who truly understand the industry, and can understand the breadth of technology that's available, are like gold dust." – **Lisa Heneghan, Global Head of Technology, KPMG**

Enterprise Architects are some of the most senior and well-paid Informational Technology professionals. The occupation requires high educational attainment and the ability to understand the interdependence of organizational processes.

This program will give you the advanced analytical skills to solve business problems by applying IT architecture and infrastructure, and the knowledge to enhance computer and network security in an operational environment.

This certificate program:

- offers both online and in-class learning
- is eligible for OSAP
- is comprised of university-level degree credit courses
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to the BComm program at Ryerson's Ted Rogers School of Information Technology Management, subject to admission

Required Courses

[CITM 410 Business Process Design](#)

[CITM 706 Enterprise Architecture](#)

[CITM 820 Information Systems Security and Privacy](#)

Electives (select 1)

[CITM 330 Supply Chain Process Architecture](#)

[CITM 600 Data Communications Network Design](#)

[CITM 711 Cloud Computing](#)

[CITM 750 IS Project Management](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements



- 3 required courses
- 1 elective
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria



Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

AND

- All of the following courses or equivalents:
 - [CITM 100](#) or [CITM 102](#)
 - [CITM 207](#)
 - [CITM 301](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid



Contact Us



Advanced International Trade Management

Certificate



With its diverse set of actors and interests, international trade has always been complex. Yet, in today's political and economic climate, even the most solid international trade agreements – as well as the institutions and norms necessary to facilitate trade – are in flux.

This certificate program provides an advanced understanding of the current international trade environment and develops the analytical skills necessary to assess business risk in international transactions.

This program:

- offers a mix of online and in-class learning
- is eligible for OSAP
- is comprised of degree-credit courses

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses —

[CGMS 723 International Trade](#)

[CGMS 724 Management of International Enterprise](#)

[CGMS 802 Ethics and Regulation of Int'l Bus](#)

Electives (select 2) —

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

[CGMS 400 The Global Business Environment](#)

[CGMS 450 Project Management](#)

[CLAW 122 Business Law](#)

[CLAW 724 Legal Aspects of International Business](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Frequently Asked Questions +

Certificate Requirements —

- Three required courses

- Two electives
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

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Recommended:

- [Certificate in Foundations of International Management](#) or equivalent

AND

- All of the following courses or equivalents:
 - [CGMS 200](#)
 - [CGMS 401](#)
 - [CQMS 102](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid

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Contact Us

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Advanced Nursing Leadership and Management

Certificate



Are you a **Registered Nurse (RN)** who plans to move into a leadership and management role in healthcare?

This program will help you build on the foundational leadership and management content you learned during your undergraduate degree in nursing (BScN).

Take courses that address your specific learning needs regarding leadership and/or management. Use your new knowledge and skills to help solve practical leadership or management issues.

This program is designed to align with the integral leadership and management functions of today's nurses. It is the first academic program in Ontario to be based on the LEADS framework (Graham, 2006)¹:

- **L**ead Self
- **E**ngage Others
- **A**chieve Results
- **D**evelop Coalitions
- **S**ystems Transformation

¹ The LEADS Framework encompasses the current best practice guidelines for [Developing and Sustaining Nursing Leadership](#), as published by the Registered Nurses' Association of Ontario (RNAO).

What Will You Learn?	+	
Who Should Take This Certificate?	+	
Who Teaches the Courses?	+	
Industry and Careers	+	
Certificate Requirements	—	<p>Required Courses —</p> <p>CVNU 360 Advanced Leadership and Management</p> <p>CVNU 370 Change and Innovation</p> <p>Electives – Group A: Program Planning and Evaluation (select 1) —</p> <p>CHSM 408 Program Planning and Evaluation</p> <p>CINP 902 Evaluation for Nonprofits</p> <p>CINT 900 Program Planning and Evaluation Strategies</p> <p>CPPA 402 Program Planning and Evaluation</p> <p>Electives – Group B: Leadership (select 1 or 2) —</p> <p>CINT 905 Conflict Resolution in Community Services Next Offered: Spring/Summer 2020</p> <p>CINT 907 Team Work for Community Services</p> <p>CINT 911 International Community Development</p> <p>CMHR 741 Managing Interpersonal Dynamics and Teams</p> <p>Electives – Group C: Management (select 1 or 2) —</p> <p>CHIM 300 Managing Health Information Services</p> <p>CHSM 301 The Healthcare Systems</p> <p>CHSM 305 The Management Cycle</p>

- 2 required courses
- 4 electives*
- Cumulative grade point average (GPA) of 1.67+

*Electives are divided into 3 groups, allowing you to dive into specialized skills. Select 1 elective from Group A: Program Planning and Evaluation; 1 or 2 electives from Group B: Leadership; and 1 or 2 electives from Group C: Management.

To assist you in selecting your program focus and electives, you will be required to take part in an individual consultation with a program advisor. Contact Jouanna Labib, Student Affairs/Program Advisor, to book your consultation: jlalib@ryerson.ca or 416-979-5000, ext. 5238.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

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Admission Criteria

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Required:

- You must be a Registered Nurse (RN) who is registered with the professional governance body of their jurisdiction
 - With a Canadian undergraduate degree in Nursing (BScN) or equivalent degree

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be presented to the academic coordinator during the [Open House](#) or mailed to the address on the form.

Admission Interview/Placement Assessment

An individual consultation with a program advisor is required in order to assist students in selecting both a focus for the certificate and appropriate electives. Contact the Nursing program advisors at cenurse@ryerson.ca or 416.979.5000, ext. 4775.

Awards and Financial Aid

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Frequently Asked Questions

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Contact Us

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[CHSM 307 Principles of Long Term Care Service Del.](#)

[CHSM 437 Human Resources Management in Healthcare](#)

[CINP 915 Financial Management for Nonprofits](#)

[CINT 920 Community Collaborations](#)

[CKPM 203 Planning and Scheduling](#)

[CKPM 209 Project Risk and Quality Management](#)

[CLAW 326 Law for Health Managers](#)

[CMHR 650 Management of Change](#)

[CMHR 721 Negotiation and Conflict Resolution](#)

[CMHR 841 Organization Theory and Design](#)

[CSWP 934 Community Engagement Foundations](#)

[CSWP 936 Community Engagement Practices](#)

[CTEC 210 Fundamentals of Project Management](#)

[CVNU 321 Financial Management](#)

Advanced Public Administration and Governance

Certificate



If you have already completed the [Certificate in Public Administration and Governance](#), this **advanced certificate** will provide you with:

- An introduction to public policy.
- A sharpened understanding of the organization and operation of the public sector.
- Skills for career advancement within the public sector or organizations that deal with it.
- An expanded awareness of the political forces that shape public administration and policy.

Gain the specialized knowledge and skills you need to advance your career in the public sector.

This program is designed for:

- those preparing for jobs or career advancement in:
- federal, provincial, or municipal government
- social service agencies
- public or non-profit organizations
- managers
- administrative officers
- front-line service providers
- policy analysts

By completing this program, you will fulfill Level II of [Ryerson's BA \(Honours\) in Public Administration and Governance](#).

What Will You Learn?

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Who Should Take This Certificate?

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Who Teaches the Courses?

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Required Course

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[CPPA 211 Public Policy](#)

Required Group 1 (select 3)

—

Choose 3 courses not previously taken in the Certificate in Public Administration and Governance.

[CPPA 120 Canadian Politics and Government](#)

[CPPA 121 Ontario Politics and Government](#)

[CPPA 122 Local Politics and Government](#)

[CPPA 124 Indigenous Politics and Governance](#)

[CPPA 235 Theories of the State](#)

[CPPA 303 Financial Management](#)

[CPPA 319 Politics of Work and Labour](#)

Liberal Studies Elective Table A (select 1 1-term lower-level course)

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Liberal Studies courses are indicated by “LL” for Lower Level and “UL” for Upper Level. Consult the [Undergraduate Calendar](#) for the complete list of Liberal Studies courses. Once you have chosen your course, return to [The Chang School website](#) to search for its availability.

[CGEN LLS One one-term Lower Level Liberal Studies Elective from Table A](#)

Professionally-Related Elective (select 1)

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Industry and Careers

+

[CECN 101 Principles of Microeconomics](#)

Testimonials

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[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

Certificate Requirements

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[CECN 110 The Economy and Society](#)

- 1 required course
- 3 courses from Required Group 1 (not previously taken in the Certificate in Public Administration and Governance)
- 1 lower-level Liberal Studies Elective from Table A
- 1 Professionally-Related Elective
- 2 Professionally-Related Elective from Table I
- Cumulative grade point average (GPA) of 1.67+

[CECN 201 Principles of Macroeconomics](#)

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2020

[CECN 210 Understanding Economics](#)

[CECN 320 Introduction to Financial Economics](#)

Note: If you wish to obtain your Certificate in Public Administration and Governance or the Advanced Certificate in Public Administration and Governance, you must apply through the Office of Undergraduate Admissions for admission to the Public Administration and Governance BA (Honours) program. Do not use the standard continuing education certificate application. Upon completing this certificate and the Advanced Certificate in Public Administration and Governance, you may continue your studies to earn a [BA \(Honours\) in Public Administration and Governance](#) from Ryerson University.

Professionally-Related Elective Table I (select 2 1-term courses from Table I)

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Admission Criteria

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Required:

- [Certificate in Public Administration and Governance](#)

Consult the [Undergraduate Calendar](#), Professionally-Related Electives Table I for a complete list of appropriate courses. Once you have chosen your course, return to [The Chang School website](#) to search for its availability.

Awards and Financial Aid

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[CGEN PRE Two One-Term Professionally-Related Electives from Table I](#)

Contact Us

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Advanced Safety Management

Certificate



Gain the tools and expertise you need to become an occupational health and safety (OHS) professional. Develop an understanding of advanced safety-specific topics and meet a growing demand across industries.

Acquire the skills to analyze and apply accident theory, evaluate safety and control measures, and put systems management approaches into practice to ensure safe workplaces.

You can choose to complete this certificate program on campus, through online courses, or through a combination of both modes.

Developed with Ryerson University's [School of Occupational and Public Health](#), courses are part of the Bachelor of Applied Science in Occupational and Public Health (BASc), in the Occupational Health and Safety option.

By completing this program after the [Certificate in Occupational Health and Safety](#), and then continuing on to the [Certificate in Occupational Health and Safety Leadership](#), you will meet the education components required for certification as a Canadian Registered Safety Professional (CRSP).

Required Courses

[COHS 323 Accident Theory](#)

[COHS 516 Ergonomics](#)

[COHS 523 Safety Evaluation Techniques](#)

[COHS 623 Safety Control Methods](#)

[COHS 723 Sectoral Applications I](#)

[COHS 818 Systems Management II](#)

[COHS 823 Sectoral Applications II](#)

[COHS 833 Fire Safety Management](#)

What Will You Learn?

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Industry and Careers

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Who Should Take This Certificate?

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Who Teaches the Courses?

+

Professional Designations and Accreditation

+

Testimonials

+

Certificate Requirements

—

- 8 required courses
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- [Certificate in Occupational Health and Safety](#) or equivalent

OR

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status and five years of professional experience in occupational health and safety, plus the following courses:
 - [COHS 208](#)
 - [COHS 718](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Frequently Asked Questions +

Contact Us +

Aging and Gerontology

Certificate



As the population ages in Canada and across the globe, there are growing opportunities for career development in the fields of aging and gerontology. With older adults representing an increasing percentage of the population, more professionals are working with older adults across a diverse spectrum of disciplines and professions.

Equip yourself with the skills to meet the unique needs of this growing demographic through the application of gerontology theory, practice, and policy change. Learn how you can contribute innovative critical thinking and problem-solving to the opportunities and challenges of Canada's aging population.

The Certificate in Aging and Gerontology may be completed entirely online through a variety of courses featuring interactive content and experiential learning.

Learn directly from professionals with extensive community experience in gerontology across a vast array of fields, including social work, health sciences, law, nursing, adult education, and psychology. Expand your hands-on experience, apply your professional knowledge, and make a difference in your field and community.

This program is geared towards practitioners in the public and nonprofit sectors from a variety of fields, disciplines, and positions that develop and deliver services which reach older adults. The program will serve undergraduate students from fields offering specialized options geared to older adults, such as real estate, technology, travel, health, public administration, architecture, human resources, and advertising.

This certificate is eligible for OSAP.

Required Courses

[CINT 901 Gerontology: Critical Issues and Future Trends](#)

[CINT 930 Aging: From Cells to Society](#)

[CINT 935 Ethical/Legal Frameworks in Aging](#)

[CINT 940 Mobilizing Research for Change](#)

Electives (select 2)

[CHSM 307 Principles of Long Term Care Service Del.](#)

[CINT 555 Special Topics in Interdisciplinary Studies](#)

[CINT 900 Program Planning and Evaluation Strategies](#)

[CINT 904 Health Promotion and Community Development](#)

[CINT 907 Team Work for Community Services](#)

[CINT 945 Technology and Aging Populations](#)

[CINT 950 Practicum/Project in Gerontology](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements —

- 4 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Experiential Learning +

Frequently Asked Questions +

Testimonials +

Awards and Financial Aid +

Course Delivery Schedule +

Contact Us +

Applied Digital Geography and GIS

Certificate



Advance your career with enhanced professional skills in digital geography and geographic information systems (GIS). Geographic information systems are used by a growing number of businesses, industries, and government organizations to help them make better decisions.

Learn principles and concepts of digital geography and fundamental GIS skills. Focus on specific specialties and workplace applications, GIS tools, and implementation issues through higher-level courses.

This program is designed for professionals currently working or anticipating careers in:

- government
- industry
- utilities
- planning
- municipal services
- health
- retailing

As a professional in these fields, you need enhanced computer literacy in the management and analysis of digital spatial data, and the use of that data in decision-making.

Take advantage of the state-of-the-art GIS facilities offered by Ryerson University's [Department of Geography and Environmental Studies](#) – a leader in GIS education in Canada.

Required Courses

[CODG 101 Spatial Databases and Digital Cartography](#)

[CODG 102 Digital Geography and Spatial Analysis](#)

Next Offered: Fall 2020

Electives – Group A (select 1 or 2)

These professional applications courses allow you to focus on an area of interest.

[CODG 123 Digital Geography Applications in Utilities Planning](#)

[CODG 124 Digital Geography Applications in Business Decision-Making](#)

[CODG 125 Digital Geography Applications for the Municipal Professional](#)

[CODG 126 Digital Geography Applications in Environmental Management](#)

[CODG 127 Digital Geography Applications in Community and Social Services](#)

Electives – Group B (select 2 or 3)

These courses are designed to provide you with some understanding of the more complex core skills and issues facing business, municipal, environmental, utilities or community and social services professionals when they employ digital geography in their decision-making.

[CODG 130 Legal and Ethical Issues in GIS and Digital Data](#)

[CODG 131 Issues and Innovations](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonials

+

Certificate Requirements

- 2 required courses
- 4 electives*
- Cumulative grade point average (GPA) of 1.67+

*Electives are divided into 3 groups, allowing you to focus on an area of interest and then dive into more specialized skills. Select 1 or 2 electives from Group A and 2 or 3 electives from Group B; alternatively, as the final course for certificate completion, you may choose to take 1 elective from Group C.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

Required:

An undergraduate degree or college diploma in an acceptable related field.

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be presented to the academic coordinator during the [Open House](#) or mailed to the address on the form.

Advanced Credit:

All applicants to the program are eligible to apply for advanced standing, with credit being granted for course work undertaken, or for professional practice, providing the course work or professional practice meets or exceeds the academic goals and content of the program courses for which credit is being sought. Advanced credit applications will be evaluated by the academic coordinator and the program director, and are subject to normal Ryerson admission policies and procedures. Students may be required to take a challenge examination in order to ascertain eligibility for advanced standing. Students will be eligible for a maximum of three course credits toward the certificate.

Awards and Financial Aid

Contact Us

[CODG 132 Customizing GIS Software: Applications Programming](#)

Next Offered: Fall 2020

[CODG 133 Map Algebra: Topology and Overlay](#)

[CODG 135 Digital Image Processing and Applications](#)

[CODG 136 Web Mapping](#)

Electives – Group C (select up to 1)

This category only applies if you select a total of 3 electives from Groups A and B (combined), and wish to take 1 of the following electives as your final course for certificate completion.

[CODG 210 Spatial Database Management Systems](#)

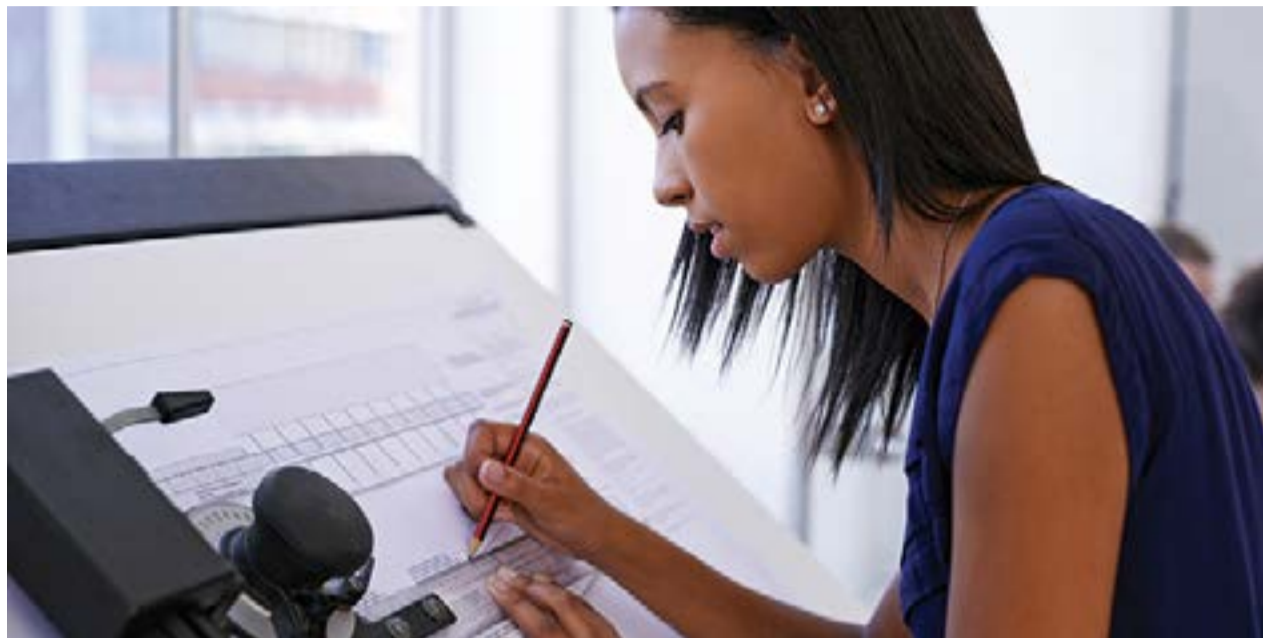
[CODG 211 Advanced GIS Programming](#)

[CODG 212 Spatial Statistical Methods](#)

[CODG 213 Internet GIS](#)

Architecture

Certificate



If you want to enter the dynamic field of architecture, or if you already work in architecture and want to improve your skills and credentials, you may be interested in the Certificate in Architecture.

Develop skills in architectural drawing and drafting, design, space planning, and human-interface and environmental systems. Learn more about building construction methods and materials, codes and regulations, and the interconnected systems that make up buildings. Build on your practical architecture competencies through studio and workshop courses. Explore related topics through electives in entrepreneurship and strategy, sustainability, project management, and more.

With additional courses, this six-course certificate is recognized by the Association of Architectural Technologists of Ontario (AATO) as meeting the educational requirements for membership as a Probationer Technician.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses

[CKAR 103 Architectural Studio - Fundamental](#)

[CKAR 205 Building Codes and Regulations](#)

[CKAR 300 Architectural Drawing](#)

[CKAR 310 Materials and Methods](#)

Electives (select 2)

[CENT 500 New Venture Startup](#)

[CKAR 203 Specifications and Contractual Documents](#)

[CKAR 209 Digital Graphics for Architecture and Design](#)

[CKAR 500 Sustainable Buildings](#)

[CKAR 785 Building Info Modelling \(REVIT\)](#)

[CKDA 610 Digital Architectural Modelling](#)

[CKDA 611 Digital Architectural Rendering](#)

[CKPM 213 Management of Projects in the AEC](#)

[CKPM 214 Project Development and Control](#)

[CTEC 210 Fundamentals of Project Management](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Professional Designations and Accreditation

+

Certificate Requirements

-

- 4 required courses

- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- A post-secondary undergraduate education (university or college) in a relevant field of study (including programs related to architecture and/or environmental sciences)

Awards and Financial Aid **+**

Frequently Asked Questions **+**

Contact Us **+**

Business Communication

Certificate

Real World Expertise - Professional Communication



Learn the skills, strategies, and theories to succeed in all areas of business communication. Explore how to write concise letters, prepare efficient reports, interact effectively with others, and deliver powerful, stress-free presentations.

Develop a high level of competence in communication for business and government organizations.

This program's **hands-on approach** will help you review communication and language basics and expand your skills in:

- documentation formatting
- research
- critical thinking
- problem solving
- public speaking

Learn from instructors with real-world experience, who share their expertise in communicating in today's global workplace.

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Finish your certificate faster through our intensive schedule option**
- **Apply for merit-based awards**

What Will You Learn?



Who Should Take This Certificate?



Required Courses

[CCMN 279 Introduction to Professional Communication](#)

Next Offered: Spring/Summer 2020

[CCMN 313 Organizational Report Writing](#)

Next Offered: Spring/Summer 2020

[CCMN 314 Professional Presentations](#)

[CCMN 413 Corporate Communications](#)

[CCMN 414 Interpersonal Communication in Management](#)

[CCMN 443 Contemporary Intercultural Communication](#)

Electives (select 2)

[CCMN 114 Short Management Reports](#)

[CCMN 315 Issues in Organizational Communication](#)

Next Offered: Spring/Summer 2020

[CCMN 447 Communication and Law](#)

[CDCM 300 Communicating in Virtual Environments](#)

[CDCM 415 Promotional Communications](#)

[CFRE 502 Communication and Business French](#)

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 6 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 60 percent

OR

- Mature student status

Awards and Financial Aid +

Intensive Option +

Why Register for the Certificate? +

Contact Us +

Business Decision Analysis

Certificate



The demand for specialists in data analytics is growing. Organizations worldwide continue to realize the potential of harvesting data to gain a competitive edge.

Up your game with our Certificate in Business Decision Analysis. Learn to identify and define particular business issues, ask the right questions, and use quantitative analysis to support your organization's business goals. Grounded in statistics, mathematics, and computer modeling, this program is designed to develop your skills in effectively using quantitative data for managerial decision-making, across the organization, to improve business outcomes.

This program:

- offers both online and in-class learning
- is eligible for OSAP
- is comprised of degree credit courses
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses (select 2) —

You must select either ((CMTH 304 or CMTH 380) and CMTH 404) OR (CQMS 102 and CQMS 202). Course selections may not be combined from both groups.

[CMTH 304 Probability and Statistics I](#)

[CMTH 380 Probability and Statistics I](#)

Next Offered: Spring/Summer 2020

[CMTH 404 Probability and Statistics II](#)

[CQMS 102 Business Statistics I](#)

[CQMS 202 Business Statistics II](#)

Electives (select 4) —

[CGMS 422 Quality Management](#)

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CITM 501 Decision Analysis](#)

[CQMS 442 Multiple Regression for Business](#)

[CQMS 521 Business Optimization](#)

[CQMS 703 Business Forecasting Techniques](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Testimonial **+**

Frequently Asked Questions **+**

Certificate Requirements **—**

- 2 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

Supplies to be purchased by the student:

A calculator with specialized statistical features is integral to many Quantitative Methods courses. Software and calculator specifications will be announced at the first class.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria **—**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including Mathematics)

OR

- Mature student status with relevant professional experience in business

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Professional Development **+**

Awards and Financial Aid **+**

Contact Us **+**

Business French and Translation

Certificate



Do you currently work or plan to work in a French business environment? This wide range of specialized and practical French language courses can help you improve your communication and translation skills.

Many of our students work in finance, banking, or government, and wish to improve their abilities in French. Some teach French courses and want to improve their business and translation skills. No matter your goals, this certificate can add to your professional qualifications and enhance your career opportunities.

If you are already proficient or fluent in French and wish to increase your business French and translation skills, this is the certificate for you.

Required Courses

[CFRE 502 Communication and Business French](#)

[CFRE 507 English-French Translation I](#)

[CFRE 602 Business French in Practice](#)

[CFRE 607 English-French Translation II](#)

[CFRE 707 Introduction to French-English Translation](#)

Electives (select 1)

[CFRE 510 Effective Writing](#)

[CFRE 515 Introduction to Business French](#)

[CFRE 610 Cultural Context of Writing](#)

[CFRE 706 The Life and Times of the French Language](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 5 required courses
- 1 elective*
- Cumulative grade point average (GPA) 1.67+

*You may be exempted from completing the elective if your level (as determined by placement assessment) is deemed more advanced. If granted advanced placement, you only need to complete the 5 required courses to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and

courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- [Certificate of Proficiency in French](#) from Ryerson

OR

- Admission by [placement assessment](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Placement Assessment **+**

Awards and Financial Aid **+**

Contact Us **+**

Business Management

Certificate



The Certificate in Business Management is comprised of eight required courses that introduce you to the foundational areas of study necessary for a career in business:

- **Accounting**
- **Business Law**
- **Business Statistics**
- **Economics**
- **Global Management**
- **Human Resources**
- **Information Systems**
- **Marketing**

This certificate program offers:

- a simple admissions process
- online or in-class learning
- financial aid options, such as OSAP
- rigorous and reputable degree credit courses
- a possible pathway to a Bachelor of Commerce degree
- free access to an academic advisor and a career specialist

Please note the following changes to the certificate, effective September 2020:

- CQMS102 will be deleted from the certificate
- CQMS110 will be added to the certificate

Students planning to register in the certificate program should contact The Chang School for academic advising.

Will this certificate help you achieve your educational and career goals?

Contact us to learn more [↗](#)

Required Courses

You may only select one of CACC 100 or CACC 110. If you plan to pursue the Accounting Finance minor, you should take CACC 110. **Note:** CACC 100 and CACC 110 are not transferable to the Accounting major in the School of Accounting and Finance at Ryerson University.

You may only select one of CITM 100 and CITM 102.

Note: CQMS 102 is not transferable to the Business Management BComm degree program at Ryerson University.

[CACC 100 Introductory Financial Accounting](#)

Next Offered: Fall 2020

[CACC 110 Financial Accounting](#)

[CECN 104 Introductory](#)

[Microeconomics](#)

Next Offered: Spring/Summer 2020

[CGMS 200 Introduction to Global Management](#)

[CITM 100 Foundations of](#)

[Information Systems](#)

[CITM 102 Business Information](#)

[Systems I](#)

[CLAW 122 Business Law](#)

[CMHR 523 Human Resources](#)

[Management](#)

[CMKT 100 Principles of](#)

[Marketing](#)

[CQMS 102 Business Statistics I](#)

Pathway to a Bachelor of Commerce Degree

+

Flexible Learning

+

Certificate Requirements



- 8 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria



Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience in business

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid



Contact Us



Canadian Dietetic Knowledge Competencies

Certificate

Register now 



Required Courses

[CFNN 202 Public Health Nutrition](#)

[CFNN 301 Intro to Nutrition Management of Human Disease](#)

[CFNN 400 Advanced Nutrition and Health](#)

[CFNN 401 Advanced Nutrition Management of Human Disease](#)

[CFNP 100 Introduction to Professional Practice](#)

[CFNP 350 Interpersonal Comm/Counselling Nutrition](#)

[CFNP 550 Introduction to Dietetics Practice](#)

[CFNR 201 Research Methods and Statistics](#)





[CFNS 200 Quantity Food Management](#)

[CFNS 400 Food Service Systems Management](#)

Are you an internationally educated professional in nutrition? Are you looking to practise as a Registered Dietitian in Canada?

The Internationally Educated Professionals in Nutrition (IEPN) program has two parts: the 10-course Certificate in Canadian Dietetic Knowledge Competencies and the practicum year. The certificate program is currently offered every other year, with January 2021 as the next anticipated start date.

The certificate bridges your foundational dietetic knowledge to the Canadian context, and provides a Canadian university credential to supplement your international university education. The certificate also means you are eligible to apply for the practicum year, which focuses on bridging your practice-based competencies to the Canadian context.

The College of Dietitians of Ontario regulates the dietetic profession in Ontario, and administers the [Prior Learning and Assessment Recognition \(PLAR\) process](#)  for internationally educated professionals in nutrition. The College recognizes successful completion of the certificate as equivalent to a [Knowledge and Competencies Assessment Tool \(KCAT\)](#)  Level I result, and successful completion of the practicum year as equivalent to successful completion of the [Performance-Based Assessment \(PBA\)](#) . Both are required to be eligible to write the [Canadian Dietetic Registration Examination \(CDRE\)](#) .

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Professional Designations and Accreditation

+

Certificate Requirements



- 10 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria



Required:

- An assessment completed by the College of Dietitians of Ontario (CDO)
 - And proof of English proficiency at the required level

For the CDO assessment, eligible applicants must have written the [Knowledge and Competency Assessment Tool \(KCAT\)](#) [exam](#) within the context of [The College of Dietitians of Ontario Competency Assessment](#) [exam](#).

Admission Application

An admission application is required for this program. A two-step pre-approval process will be conducted by the program coordinator including submission of an application package and an in-person assessment for qualifying applicants.

For more information, see How to Apply or contact ied@ryerson.ca.

How to Apply



Awards and Financial Aid



Frequently Asked Questions



Contact Us



Canadian Social Work Practice

Certificate

[Register now](#) ➤



This innovative, award-winning program is designed to assist internationally educated social work professionals to gain employment in the social service/human service sector in Ontario at levels that match their knowledge and experience. Since the program began in 2005, **89 percent of certificate program graduates have been hired into positions in the social work field within one year of graduation.**

Offered part-time over a 13-month period (beginning in the Summer term), the program includes courses, mentorship, and work experience. The certificate is open only to internationally educated professionals with social service experience approved through the Internationally Educated Social Work Professionals (IESW) Program admissions process.

The program offers the following:

- degree credit courses that comply with the Canadian Association for Social Work Education (CASWE) accreditation standards and are monitored by the Faculty of the School of Social Work at Ryerson University
- a practicum placement and profession-specific communication and job search supports
- integration of experiential and simulation based learning into the curriculum

Note: If you are considering applying for the Certificate in Canadian Social Work Practice, please contact us at the email address or phone number below to schedule a meeting with the IESW Bridging Program team or attend an information session. The meeting will help you to understand how we can support your career and education goals.

Phone: 416-979-5000, ext. 4095

Email: iesw@ryerson.ca

IESW Bridging Program is funded by:



Tuition and Awards and Financial Aid



Required Courses

CSWP 36A is a multi-term course. If you enrol in CSWP 36A for the selected term, you will automatically be enrolled in CSWP 36B 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.

[CSWP 301 Decolonizing and Anti-Oppression Practice](#)

[CSWP 402 Social Policy and Social Inclusion](#)

[CSWP 917 Special Topics I](#)

[CSWP 918 Special Topics II](#)

[CSWP 36A Field Practicum-A](#)

[CVSW 900 Foundations of Social Work](#)

How to Apply	+
Curriculum and Schedule	+
Knowledge and Skills Development	+
Work Placement	+
Mentoring and Job Search Support	+
Additional Benefits	+
Certificate Requirements	—

- 5 required courses
- 1 work placement*
- Cumulative grade point average (GPA) of 1.67+

*Refer to Work Placement above.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria **—**

Required:

- A social work degree awarded outside of Canada and registration with the Ontario College of Social Workers and Social Service Workers (OCSWSSW)
 - And a minimum of 1 year of paid accumulated employment in the social service field (abroad and/or in Canada)

OR

- A social work degree awarded outside of Canada assessed as equivalent to a BSW or an MSW by the Canadian Association of Social Workers (CASW)
 - And a minimum of 1 year of paid accumulated employment in the social service field (abroad and/or in Canada)


OR






- A baccalaureate degree awarded outside of Canada (minimum of 3 years of university study) in the humanities or social sciences, and equivalent to a Canadian degree
 - And a minimum of 2 years' paid accumulated employment in the social service field (abroad and/or in Canada)

AND

- proof of English proficiency at the required level
- proof of Ontario residency
- proof of eligibility to work in Canada

Students seeking admission to this program are also required to complete an application form and participate in a pre-assessment. Refer to How to Apply above.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

- Testimonials** 
- Frequently Asked Questions** 
- Pathways for Internationally Educated Social Work Professionals (IESW)** 
- Employers** 
- Contact Us** 

Caribbean Studies

Certificate



Enrich your knowledge of the Caribbean through this fascinating interdisciplinary program.

Learn about the Caribbean's history, politics, and economy. Examine the region's rich cultural, racial, and ethnic diversity. Explore the importance of the Caribbean community in Canada.

A diverse selection of courses will allow you to engage with contemporary issues in the Caribbean region and its diaspora, including:

- Tourism Impacts and Resistance
- Environmental Sustainability
- Globalization
- Migration
- Multiculturalism
- Transnationalism
- Creolization
- Diaspora
- Racism
- Sexualities
- Equity
- Inclusion

If you want to learn more about contemporary issues in the Caribbean and the region's influence on the world, this program is for you.

Required Course

[CCRB 100 Introduction to the Caribbean](#)

Electives (select 5)

[CCRB 500 Families in the Caribbean](#)

[CCRB 501 Racism and Caribbean Peoples in Canada](#)

[CCRB 502 Cultural Traditions in the Caribbean](#)

[CCRB 600 Postcolonial Caribbean Society](#)

[CCRB 603 Special Topics in Caribbean Studies](#)

[CCRB 605 Caribbean Tourism: Impacts and Resistance](#)

[CCRB 614 Caribbean Critical Thought](#)

[CENG 620 English Caribbean Literatures and Cultures](#)

[CFRS 602 French Caribbean Literature and Culture](#)

[CGEO 705 Environment and Society in the Caribbean](#)

[CHST 222 The History of The Caribbean](#)

[CSPN 804 Latin American Culture II](#)

[CSPS 502 Spanish Caribbean Literature and Culture](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonials

+

Certificate Requirements

—

- 1 required course
- 5 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid

+

Contact Us

+

Community Engagement, Leadership, and Development

Certificate



Expand on your skills and knowledge to engage community members in planning, problem-solving, and decision-making processes that improve the social, political, and cultural well-being of civic and community life.

Developed in consultation with community practitioners, this certificate focuses on the strong links between community engagement, community leadership, and community development. From the policies and processes crucial to community mobilization to planning and evaluation models, you will explore the practice of critical awareness and have the opportunity to develop and demonstrate your newly acquired skills.

All required courses are offered in an online format, and the certificate can be completed entirely online. Many electives are available both online and in a classroom format. **This certificate is eligible for OSAP.**

Learn directly from professionals with years of experience in community engagement, research and practice.

This program is geared towards practitioners in the public and nonprofit sectors from a variety of fields and disciplines, including:

- social services
- education
- labour
- health
- housing
- community policing
- transportation planning

What Will You Learn?

+

Who Teaches the Courses?

+

Who Should Take This Certificate?

+

Required Courses

[CSWP 934 Community Engagement Foundations](#)

[CSWP 935 Engaging Diverse Communities](#)

[CSWP 936 Community Engagement Practices](#)

[CSWP 937 Community Engagement Capstone](#)

Electives (select 2)

[CCMN 313 Organizational Report Writing](#)

Next Offered: Spring/Summer 2020

[CCMN 314 Professional Presentations](#)

[CCMN 414 Interpersonal Communication in Management](#)

[CCMN 443 Contemporary Intercultural Communication](#)

[CCRM 322 Ethics in Criminal Justice](#)

[CCRM 402 Criminal Justice and Social Inequality](#)

[CDST 501 Rethinking Disability](#)

[CDST 613 Strategies for Community Building](#)

[CFNY 407 Community Development and Food Security](#)

[CINP 913 Leadership in Nonprofits](#)

[CINT 900 Program Planning and Evaluation Strategies](#)

[CINT 904 Health Promotion and Community Development](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CINT 907 Team Work for Community Services](#)

Industry and Careers	+	CINT 910 First Nations Issues
Certificate Requirements	-	CINT 912 Community Development: International Field Experience CINT 914 Settlement Experiences CINT 916 Introduction to Fundraising CINT 917 Interprof. Ed. for Community Development <small>Next Offered: Spring/Summer 2020</small> CINT 920 Community Collaborations CINT 922 Intro to Aboriginal Worldviews
<ul style="list-style-type: none"> • 4 required course • 2 electives • Cumulative grade point average (GPA) of 1.67+ 		
<p>To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our Glossary of Terms. If certificate requirements change and courses are no longer available, you may request Course Substitutions/Directives. You must apply to graduate on my.ryerson (RAMSS) within the appropriate application deadlines (refer to Important Dates). Visit Graduation for details.</p>		
Recommended Course Sequence	+	CPLE 795 Local Economic Development Fundamentals
Admission Criteria	-	CPSY 808 Community Psychology CSOC 500 Youth and Society CSOC 609 Women and Human Rights CSOC 705 Law and Justice CSSH 502 Community Action Research CSWP 302 Social Policy: Welfare and Programs CSWP 335 Power, Resistance and Change CSWP 402 Social Policy and Social Inclusion
Recommended:		
<ul style="list-style-type: none"> • Ontario Secondary School Diploma (OSSD) or equivalent <ul style="list-style-type: none"> ◦ With 6 Grade 12 U or M credits 		
OR		
<ul style="list-style-type: none"> • Mature student status with relevant work experience 		
Experiential Learning	+	CSWP 302 Social Policy: Welfare and Programs
Awards and Financial Aid	+	CSWP 402 Social Policy and Social Inclusion
Frequently Asked Questions	+	CTEC 210 Fundamentals of Project Management
Testimonials	+	CVFS 401 Contemporary Family Issues
Contact Us	+	CVFS 403 Family Supports Theory and Practice

Computer Programming Applications

Certificate



Master the principles of client/server architecture and networking. Learn to code in the tech sector's most commonly used programming languages.

Specialize in one of eight application areas:

- Artificial Intelligence (AI)
- Computational Methods
- Database Technology
- Geographic Information Systems
- Landscape Design
- Networking
- Project Management
- Software Engineering

This is an **Open Admissions** program, which means you can enrol in courses right away.

Advance or change your career by developing the hands-on knowledge and skills to provide innovation through computer programming applications.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

[CCPS 109 Computer Science I](#)

Next Offered: Spring/Summer 2020

[CCPS 209 Computer Science II](#)

Next Offered: Spring/Summer 2020

[CCPS 305 Data Structures](#)

Next Offered: Spring/Summer 2020

[CCPS 393 Introduction to UNIX, C and C++](#)

Electives (select 2)

[CCPS 270 Data Access and Management](#)

[CCPS 311 Object Oriented Programming and Design](#)

[CCPS 420 Discrete Structures](#)

[CCPS 510 Database Systems I](#)

[CCPS 590 Operating Systems I](#)

[CCPS 610 Database Systems II](#)

[CCPS 613 Human-Computer Interaction](#)

[CCPS 706 Computer Networks I](#)

[CCPS 721 Artificial Intelligence I](#)

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CKCS 180 IoT 360 Connectivity to the World](#)

[CKCS 210 Mathematical Modeling: Introduction to MATLAB](#)

[CKCS 220 Mathematical Modeling: Statistical Analysis Utilizing SPSS](#)

[CKLA 300 Landscape Design Communications and Theory](#)

[CKLA 440 Landscape Design LANDWorksCAD PRO](#)

[CKPM 219 Mobile Project Management](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 4 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

[CODG 132 Customizing GIS Software: Applications Programming](#)

Next Offered: Fall 2020

[CODG 136 Web Mapping](#)

[CODG 211 Advanced GIS Programming](#)

[CSCI 130 Mobile Robotic Devices Embedded Systems](#)

[CTEC 210 Fundamentals of Project Management](#)

Recommended Course Sequence



Admission Criteria




Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status with permission of the academic coordinator

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Frequently Asked Questions



Awards and Financial Aid



Contact Us



Computer Security and Digital Forensics

Certificate

The Chang School Certificate in Computer Security and Digital Forensics



Learn to collect digital evidence after a cybersecurity breach and help recover information after a cyber threat or hardware failure. Analyze systems to detect compromises and close the system security gaps through legal hacking.

Gain skills in penetration testing, digital forensics, and enterprise network security in the private and public sectors.

This is an **Open Admissions** program, which means you can enrol in these cybersecurity courses right away.

You may also choose to complete the certificate program in an accelerated format. Review **Fast Track Option** below for more details.

Advance or change your career by learning to provide hands-on innovation in cybersecurity and digital forensics technically on the job.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

You may only select 1 of CKDF 145, CSCI 243, or CZLW 120.

[CKDF 110 Computer Network Security](#)

[CKDF 120 Computer Cryptography and Digital Steganography](#)

[CKDF 130 Digital Forensics Systems](#)

[CKDF 140 Security Architecture and Design](#)

[CKDF 145 Certified Information Systems Security Professional \(CISSP\)](#)

[CKDF 150 Digital Forensics Investigation](#)

[CSCI 243 Continuity and Risk Management](#)

[CZLW 120 Law for Forensics Professionals](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Cybersecure Catalyst

+

Courses Available in Brampton

+

Fast Track Option

+

Virtual Tutor +

Industry and Careers +

Testimonials +

Certificate Requirements -

- 6 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 70 percent

OR

- Mature student status

Note: Knowledge of TCP/IP is recommended.

Awards and Financial Aid +

Frequently Asked Questions +

Contact Us +

Crime Analytics

Certificate

The Chang School's Certificate in Crime Analytics



Featured in the Toronto Star: [How to get into crime analytics](#)

[TalentEgg Talks Live Event December 11, 2019](#)

The use of crime analysis and intelligence-led policing is increasingly being adopted by policing agencies across Canada. This certificate provides students with a theoretical foundation and extensive practical experience in using crime analysis tools for tactical, strategic, and administrative decision-making in law enforcement. Crime analytics in law enforcement or security agencies is usually carried out by the civilian workforce, rather than uniformed or sworn law enforcement personnel.

What Will You Learn?



Who Should Take This Certificate?



Industry and Careers



Certificate Requirements



- 5 required courses
- 1 elective
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and

Required Courses



[CCRM 100 Introduction to Canadian Criminal Justice](#)

[CODG 101 Spatial Databases and Digital Cartography](#)

[CODG 102 Digital Geography and Spatial Analysis](#)

Next Offered: Fall 2020

[CODC 910 Spatial Methods in Crime Analysis](#)

Next Offered: Spring/Summer 2020

[CODC 911 Crime Analytics Project](#)

Electives (select 1)



[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2020

[CCRM 300 Policing in Canada](#)

[CODG 127 Digital Geography. Applications in Community and Social Services](#)

[CODG 210 Spatial Database Management Systems](#)

[CODG 212 Spatial Statistical Methods](#)

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2020

[CPSY 622 The Psychology of Criminal Behaviour](#)

courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Awards and Financial Aid

+

Contact Us

+

Criminal Justice and Criminology

Certificate



Join an important and dynamic field. Learn about how the criminal justice system operates and explore the key players and institutions. Examine how people are affected by the justice system and other institutions of regulation.

Prepare for work in criminal justice–related fields or to transition into a related undergraduate program.

This program will help you understand the balancing of the interests of victims, offenders, the public, and politicians, along with concerns about human rights and social justice.

You may be interested if you already work in the public or private sector and are seeking to enter, change, or advance your career in fields related to criminal justice.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 2 required courses
- 3 electives from Group A
- 1 elective from Group B
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Required Courses -

[CCRM 100 Introduction to Canadian Criminal Justice](#)

[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2020

Electives - Group A (select 3) -

[CCRM 200 Criminal Law](#)

[CCRM 202 Victims and the Criminal Process](#)

[CCRM 300 Policing in Canada](#)

[CCRM 304 Youth Justice in Canada](#)

[CCRM 306 Corrections in Canada](#)

[CCRM 308 Criminal Courts in Canada](#)

[CCRM 402 Criminal Justice and Social Inequality](#)

Electives - Group B (select 1) -

[CGEO 581 GIS, Geographic Data and Mapping](#)

[CPHL 449 Philosophy of Punishment](#)

[CPHL 612 Philosophy of Law](#)

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2020

[CPSY 602 Developmental Psychopathology](#)

[CSOC 500 Youth and Society](#)

[CSOC 502 Violence and the Family](#)

Next Offered: Spring/Summer 2020

Admission Criteria




Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant work experience including policing, corrections, courts, social service agencies, security management services, or regulatory enforcement agencies

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid



Contact Us



Data Analytics, Big Data, and Predictive Analytics

Certificate

There are few fields that are in higher demand right now than data science. Our Certificate in Data Analytics, Big Data, and Predictive Analytics, available in a fully online format, will help you build the full range of skills you need to advance in your current job or start a new one.

This certificate is one of several that offer financial aid options for eligible students. It is also one of [more than 30 online certificates](#) you can complete from home.



The Chang School Certificate in Data Analytics, Big Data, and Predictive



Required Courses

You may only select 1 of CIND 110 or CCPS 270.

[CCPS 270 Data Access and Management](#)

[CIND 110 Data Organization for Data Analysts](#)

[CIND 119 Introduction to Big Data](#)

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CIND 719 Big Data Analytics Tools](#)

[CKME 136 Data Analytics: Capstone Course](#)

[CMTH 642 Data Analytics: Advanced Methods](#)

Next Offered: Spring/Summer 2020

Starting in Spring 2020, this certificate can be completed fully online.

Data analytics, big data, and predictive analytics domains are recognized as having significant and growing societal importance to organizational performance.

They are becoming essential to:

- the research and development of products and services
- communication with clients and customers
- commerce
- finance
- public utility and infrastructure
- law enforcement
- government institutions

This certificate will provide you with a strong foundation in analytics, tools, and statistics. It will help you use data analytics, big data, and predictive analytics to optimize performance in fields like data warehousing, data management, IT, and more. It may provide you with the necessary credentials for career promotion or other professional enrichment.

No previous background is required. You may also choose to complete the certificate program in an accelerated format. Review *Fast Track Options* below for more details.

Upon successful completion of this certificate, you will be prepared to take the Institute for Operations Research and the Management Sciences (INFORMS) Certified Analytics Professional (CAP®) exam to become a certified professional in this burgeoning field. See Professional Designations and Accreditation below for details.

Have questions about our STEM certificates?

Fill out this form and a representative from The Chang School will contact you.

[Connect with us](#) 

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Fast Track Options +

Virtual Data Analytics Tutor +

Industry and Careers +

Professional Designations and Accreditation +

Recommended Course Sequence +

Testimonials +

Data Science Bootcamp +

Master of Science (MSc) in Data Science and Analytics +

Big Data Consortium Reports +

Frequently Asked Questions +

Certificate Requirements —

- 6 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U credits (including English, Mathematics (Advanced Functions and one of either Calculus and Vectors or Data Management), and Science (Biology or Chemistry or Physics)) OR M credits with a minimum average of 70 percent or equivalent academic status

OR

- Mature student status with 4 years of relevant professional experience
 - And permission of the academic coordinator

Awards and Financial Aid

+

Contact Us

+

Demographic Analysis

Certificate

The Certificate in Demographic Analysis will not be accepting any new registrants. The certificate has been discontinued effective Fall 2019. Students formally registered in the certificate prior to July 2, 2019, must complete the program requirements in effect at the time they registered. For further information please contact Dr. Joe Aversa, Academic Coordinator at javersa@ryerson.ca

Required Courses

[CODA 100 Principles of Demographic Analysis](#)

[CODA 110 GIS Applications in Demography](#)

[CODA 120 Advanced Demographic Applications](#)

Electives (select 3)

[CECN 640 Economics of Immigration](#)

[CGEO 206 Regions, Nations and the Global Community](#)

[CGEO 301 Marketing Geography](#)

[CGEO 419 Retailing, GIS and Geodemographics](#)

[CGEO 505 Regional Analysis of Canada](#)

[CGEO 691 Canadian Immigration: Patterns and Place](#)

[CGEO 803 Recreation and Tourism Analysis](#)

[CINT 913 Issues of Migration](#)

[CINT 914 Settlement Experiences](#)

[CINT 915 Responses to Migration](#)

[CODG 127 Digital Geography. Applications in Community and Social Services](#)

[CPSY 620 Psychology of Immigration](#)

[CPSY 941 Cross Cultural Psychology](#)

[CSOC 474 Immigration, Borders and Belonging](#)

Design for Arts and Entertainment

Certificate

Prepare for a career in scenography and learn to design for motion pictures, live entertainment, and cultural events.

This certificate program will help you develop the skills needed to make set, prop, and costume design proposals.

Upon successful completion, we will direct you to paid apprenticeships in Toronto's vibrant entertainment sector through a policy of ongoing mentorship, including any additional professional development you may need.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take Ryerson degree-credit courses
- Prepare for recognition by leading professional associations (*additional training required*)
- Apply for merit-based awards

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 5 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Why Register for the Certificate?

+

Want to find out more or ask a question about the **Certificate in Design for Arts and Entertainment?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

—

[CDID 150 Design Theory](#)

[CDID 170 Drafting for Entertainment](#)

[CDMP 130 History of Arts and Scenography](#)

[CFPN 501 Scenography I: Art Direction](#)

[CFPN 601 Scenography II - Production Design](#)

Electives (select 2)

—

[CCMN 314 Professional Presentations](#)

[CDFA 104 Fashion Drawing I](#)

[CDFC 106 Fashion, Culture, and Society](#)

[CDFP 391 History of Photography I](#)

[CDID 552 Entertainment Lighting Design](#)

[CDMP 120 Film History](#)

[CENG 101 Laughter and Tears: Comedy and Tragedy](#)

[CFPN 323 Sound Design for Digital Media I](#)

[CFPN 531 Cinematography and Lighting Design I](#)

[CMPC 203 Art in the Modern World](#)

[CRTA 180 Music and Film](#)

Next Offered: Spring/Summer 2020

Admission Criteria

—

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 60 percent

OR

- Mature student status with relevant professional experience

Note: If you have no previous drawing experience, you must successfully complete [CDID 803 - Drawing Fundamentals](#).

Awards and Financial Aid

+

Frequently Asked Questions

+

Testimonials

+

Course Delivery Schedule

+

Contact Us

+

Design Management

Certificate



In today's dynamic economy, the skills of designers are particularly valuable. Design management has become recognized all over the world as a core competency for companies in a variety of industry sectors.

This multi-disciplinary certificate program explores how to manage design effectively to achieve economic, social, and environmental advantage in the modern business environment. It will also teach you to manage the creative skills of designers to achieve specific strategic goals. Management in design firms is also addressed.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take a mix of online and in-class courses
- Take Ryerson degree-credit courses
- Get real industry experience through internship, practicum, or project-based opportunities
- Finish your certificate faster through our intensive schedule option
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Design Management?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

[CDDM 101 Introduction to Design Management](#)

[CDDM 102 Design Management II](#)

[CDDM 103 Design Management Project](#)

Electives (select 5)

[CCMN 314 Professional Presentations](#)

[CDDM 104 Design Awareness I](#)

[CDDM 106 Design Research](#)

[CDID 150 Design Theory](#)

[CENT 500 New Venture Startup](#)

[CGCM 110 Introduction to Graphic Communications](#)

Next Offered: Spring/Summer 2020

[CITM 100 Foundations of Information Systems](#)

[CMHR 405 Organizational Behaviour](#)

[CMKT 100 Principles of Marketing](#)

[CTEC 210 Fundamentals of Project Management](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

–

- 3 required courses
- 5 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Note: Work experience and/or post-secondary education related to design or business is desirable.

Awards and Financial Aid **+**

Intensive Option **+**

Contact Us **+**

Digital Art Production

Certificate



Starting in Spring 2020, this certificate can be completed fully online.

Develop your creative and technical skills in digital content production. Learn design, visual communication, interaction design, and storytelling skills. Enrich your understanding of art, media, and culture.

This hands-on, experiential program will support you in creating original content and integrating it into the digital world. You will also gain theoretical, historical, and contemporary knowledge of art, design, and global communication.

This six-course program is offered in cooperation with [Ryerson University's School of Image Arts](#). It is the only part-time program in Canada that offers a combination of applied creative and digital courses at the university degree-credit level.

This certificate program offers students the opportunity to apply some or all of the credit earned through the certificate as transfer credits to a BFA in Image Arts at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying).

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Take Ryerson degree-credit courses**
- **Ladder to a Ryerson degree program – earn advanced standing through eligible degree-credit courses**
- **Get real industry experience through internship, practicum, or project-based opportunities**
- **Finish your certificate faster through our intensive schedule option**
- **Exhibit your creative work through special events**
- **Get assistance to help pay for this program through OSAP**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Certificate in Digital Art Production**? Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses

[CMPC 101 Visual Studies I](#)

[CMPC 103 Art and the Classical Tradition](#)

Electives (select 4)

[CDMP 125 Fiction Screenwriting](#)

[CEID 100 Digital Skills: Int'l Innovation](#)

Next Offered: Spring/Summer 2020

[CFPN 534 Graphic Design](#)

[CFPN 535 Interaction Design](#)

[CFPN 537 Immersive Imaging](#)

[CFPN 539 The Human Figure](#)

[CFPN 541 Digital Animation Concepts](#)

Next Offered: Spring/Summer 2020

[CFPN 542 Design for Mobile Devices](#)

[CFPN 547 Co-Operative Internship](#)

[CMPC 203 Art in the Modern World](#)

[CNPf 566 History of Animation](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 2 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits
 - With a minimum average of 60 percent

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Why Register for the Certificate? +

Awards and Financial Aid +

Frequently Asked Questions +

Intensive Option +

Course Delivery Schedule +

The Chang School Photography Exhibition +

Contact Us +

Disaster and Emergency Management

Certificate



Learn the applied best practices for disaster and emergency management to work in this expanding professional sector.

- Preparedness
- Mitigation
- Response
- Recovery
- Business Continuity

Gain skills in mid- to high-level managerial competencies and reporting practices relevant to the field. Advance or change your career by becoming a disaster and emergency management professional.

This is an **Open Admissions** program, which means you can enrol in courses right away.

This certificate program may be completed entirely online.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses —

[CKDM 160 Emerging Issues](#)

[CSCI 232 Incident and Operations Management](#)

[CSCI 234 Analysis of Critical Incidents](#)

[CSCI 241 Planning for Emergency Management](#)

[CSCI 243 Continuity and Risk Management](#)

Electives (select 1) —

[CDCM 125 Disaster and Emergency Incident Communications](#)

[CKDM 105 Project Management in Disaster Recovery.](#)

[CKDM 110 Law of Disaster and Emergency Management](#)

[CKDM 115 Intl Policies and Disaster Coor](#)

[CSCI 230 Emergency Management Practice](#)

Approved by Emergency Management Ontario +

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements —

- 5 required courses
- 1 elective
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Recommended Course Sequence

+

Professional Development

+

Fast Track Option

+

Awards and Financial Aid

+

Frequently Asked Questions

+

Contact Us

+

Economics

Certificate

The Certificate in Economics will not be accepting any new registrants. The certificate has been discontinued effective Fall 2019. Students formally registered in the certificate prior to July 2, 2019 must complete the program requirements in effect at the time they registered.

For further information, please contact Dr. Haomiao Yu, Academic Director, at aceconomics@ryerson.ca.

Other Economics Certificates at The Chang School

You may be interested in one of our other Economics certificates:

- [Economics: Fundamentals](#)
- [Economics: Theory and Applications](#)
- [Economics and Finance](#)

Required Courses

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2020

Electives (select four)

Students select a total of four electives, one of which must be CECN 301 or CECN 504.

[CECN 220 Evolution of the Global Economy](#)

[CECN 301 Intermediate Macroeconomics I](#)

[CECN 321 Introduction to Law and Economics](#)

[CECN 501 Industrial Organization](#)

[CECN 502 Economics of Energy and Natural Resources](#)

[CECN 504 Intermediate Microeconomics I](#)

[CECN 506 Money and Banking](#)

[CECN 510 Environmental Economics](#)

[CECN 600 Intermediate Macroeconomics II](#)

Next Offered: Spring/Summer 2020

[CECN 601 Economics of Information](#)

[CECN 605 Labour Economics](#)

[CECN 606 International Monetary Economics](#)

[CECN 614 An Introduction to Game Theory](#)

[CECN 627 Econometrics I](#)

[CECN 640 Economics of Immigration](#)

[CECN 700 Intermediate Microeconomics II](#)

Next Offered: Spring/Summer 2020

[**CECN 702 Econometrics II**](#)

[**CECN 703 Public Sector
Economics**](#)

[**CECN 715 Advanced
Microeconomics**](#)

[**CECN 803 Canadian Tax Policy**](#)

[**CECN 808 Economic Growth and
Technological Change**](#)

[**CECN 815 Advanced
Macroeconomics**](#)

Economics: Fundamentals

Certificate

Build a solid foundation in the principles of Economics and general Economic Theory. This certificate is designed for students with no previous training in Economics and will introduce you to key concepts and theories.

Knowledge of Economics can be useful for careers in a wide variety of fields or can serve as the first step towards more advanced academic studies.

By completing this certificate, you will be able to demonstrate knowledge of basic microeconomic and macroeconomic theory, and their application to various subfields of Economics, including Environmental Economics, Monetary Economics, and International Economics.

Once you complete this certificate, you may also be interested in taking our more advanced [Certificate in Economics: Theory and Applications](#).

This certificate can be completed entirely online.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonials

+

Certificate Requirements

—

- 2 required courses
- 2 electives*
- Cumulative grade point average (GPA) of 1.67+

*If you plan to pursue the [Certificate in Economics: Theory and Applications](#), you should select CECN 189, as it is a prerequisite for the program.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent

Required Courses

—

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2020

Electives (select 2)

—

If you plan to pursue the Certificate in Economics: Theory and Applications, you should select CECN 189, as it is a prerequisite for the program.

[CECN 189 Mathematics for Economics I](#)

[CECN 220 Evolution of the Global Economy](#)

[CECN 301 Intermediate Macroeconomics I](#)

[CECN 321 Introduction to Law and Economics](#)

[CECN 340 The Economics of Human Behaviour](#)

Next Offered: Spring/Summer 2020

[CECN 502 Economics of Energy and Natural Resources](#)

[CECN 504 Intermediate Microeconomics I](#)

[CECN 506 Money and Banking](#)

[CECN 511 Economy and Environment](#)

Next Offered: Spring/Summer 2020

[CECN 512 The Economics of Sex](#)

[CECN 603 Economic Issues in Globalization](#)

Next Offered: Spring/Summer 2020

[CECN 640 Economics of Immigration](#)


[CECN 722 Economic Issues in Professional Sports](#)

Next Offered: Spring/Summer 2020

- With 6 Grade 12 U credits (including English or Mathematics)
- Or With M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid



Contact Us



Economics and Finance

Certificate



Designed for students who aspire to careers in banking and finance, this certificate can help you join an exciting industry or accelerate your current work in these fields.

Develop strong analytical skills through a wide variety of foundational courses in both economics and finance.

This certificate will help prepare you to qualify as a Chartered Financial Analyst (CFA) or Certified Financial Planner (CFP), or to pursue graduate studies in economics, finance, or business administration.

This certificate can be completed entirely online.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Professional Designations and Accreditation +

Certificate Requirements -

- 4 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Required Courses -

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2020

[CFIN 300 Managerial Finance I](#)

[CFIN 401 Managerial Finance II](#)

Electives (select 2) -

You may only select 1 of CECN 129 or CQMS 102.

You may only select 1 of CECN 721 or CFIN 621.

[CECN 129 Statistics for Economics I](#)

[CECN 301 Intermediate Macroeconomics I](#)

[CECN 504 Intermediate Microeconomics I](#)

[CECN 506 Money and Banking](#)

[CECN 606 International Monetary Economics](#)

[CECN 703 Public Sector Economics](#)

[CECN 721 International Financial Markets](#)

[CFIN 501 Investment Analysis](#)

[CFIN 502 Personal Financial Planning](#)

[CFIN 510 Small Business Finance](#)

[CFIN 512 Risk Management and Insurance](#)

[CFIN 601 Derivatives](#)

[CFIN 612 Retirement and Estate Planning](#)

[CFIN 621 International Finance](#)

[CQMS 102 Business Statistics I](#)

Admission Criteria



Recommended:


- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U credits (including English, Mathematics (one of which must be Advanced Functions, Calculus and Vectors, or Data Management)
 - Or with M credits with a minimum average of 70 percent or equivalent academic status

OR

- Mature student status

AND

[CACC 110](#) or equivalent

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid



Contact Us



Economics: Theory and Applications

Certificate

Learn how to apply mathematical and statistical tools to the analysis of a wide variety of economic and business problems. Build on your existing knowledge to gain an advanced understanding of Economics.

If you've already completed the [Certificate in Economics: Fundamentals](#), this certificate can help you develop a deeper understanding of economic theory and quantitative methods.

With economic forces at play everywhere in both the private and public sectors, this certificate can help you gain a competitive edge in a wide range of career paths. It may also serve as a stepping stone if you have a degree in another field but wish to pursue graduate studies in Economics or a related field.

Required Courses (select 1) —

[CECN 301 Intermediate Macroeconomics I](#)

[CECN 504 Intermediate Microeconomics I](#)

Electives (select 3 not previously taken in Required Courses) —

[CECN 230 Mathematics for Economics II](#)

Next Offered: Spring/Summer 2020

[CECN 301 Intermediate Macroeconomics I](#)

[CECN 501 Industrial Organization](#)

[CECN 504 Intermediate Microeconomics I](#)

[CECN 510 Environmental Economics](#)

[CECN 600 Intermediate Macroeconomics II](#)

Next Offered: Spring/Summer 2020

[CECN 601 Economics of Information](#)

[CECN 605 Labour Economics](#)

[CECN 606 International Monetary Economics](#)

[CECN 614 An Introduction to Game Theory](#)

[CECN 627 Econometrics I](#)

[CECN 700 Intermediate Microeconomics II](#)

Next Offered: Spring/Summer 2020

[CECN 702 Econometrics II](#)

[CECN 703 Public Sector Economics](#)

[CECN 707 Economics of International Trade I](#)

[CECN 715 Advanced Microeconomics](#)

[CECN 803 Canadian Tax Policy](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements —

- 1 required course
- 3 electives*
- Cumulative grade point average (GPA) of 1.67+

*You must take 3 selections from the Electives (that you haven't already taken as Required Courses).

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Suggested Elective Groupings +

Admission Criteria —

Recommended:


- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U credits (including English or Mathematics)
 - Or With M credits

OR

- Mature student status

AND

- The following course or equivalent:
 - [CECN 189 - Mathematics for Economics I](#)

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

[CECN 808 Economic Growth and Technological Change](#)

[CECN 815 Advanced Macroeconomics](#)

Awards and Financial Aid

+

Contact Us

+

Energy Management and Conservation

Certificate



Required Courses

[CTEC 241 Energy Innovation](#)

[CTEC 264 Trends in Smart Grid](#)

[CTEC 269 Trends in Energy Conservation](#)

[CTEC 282 Public Policy in Energy](#)

Contribute to energy management, conservation, sustainability, and public policy in a dynamic and exciting sector. Help implement solutions and manage energy assets by responding to advances in energy conservation, energy public policy, smart grid, and green technologies.

Designed in collaboration with Ryerson University's [Centre for Urban Energy \(CUE\)](#), this certificate will help you develop skills in energy innovation and entrepreneurship, and meet the challenges and opportunities in creating new energy technologies and business enterprises.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

This four-course certificate can be completed entirely online.

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 4 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Recommended:

- Mature student status and evidence of relevant college- or university-level coursework, or equivalent

OR

- Mature student status with relevant industrial or professional experience

Centre for Urban Energy (CUE)

+

Awards and Financial Aid

+

Contact Us

+

English Literature and Popular Culture

Certificate



Build a foundation in diverse literary forms, from Shakespeare to popular culture. Hone critical analysis skills and the ability to write organized, sustained, and well-reasoned arguments. Develop your own creative writing style.

This certificate allows you to tailor your studies to your own literary interests and aspirations.

Required Courses

[CENG 110 Literatures Across Borders](#)

Electives (select 5)

[CENG 112 Zap, Pow, Bang: Pop Lit](#)

[CENG 200 Writing as a Cultural Act](#)

[CENG 208 Introduction to Non-Fiction](#)

[CENG 222 Fairy Tales and Fantasies](#)

[CENG 503 Science Fiction](#)

[CENG 505 Creative Writing](#)

Next Offered: Spring/Summer 2020

[CENG 510 Gothic Horror](#)

Next Offered: Spring/Summer 2020

[CENG 511 The Art of Writing Life](#)

[CENG 610 The Language of Love, Sex and Gender](#)

[CENG 705 Studies in Visual Cultures](#)

[CENG 706 Shakespeare and Performance](#)

[CENG 720 Persuasion from Plato to Present](#)

[CENG 921 Narrative in a Digital Age](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 1 required course
- 5 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria


—

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 70 percent

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid**Contact Us**

Entering Foreign Markets

Certificate



Venturing into foreign markets is an attractive option for businesses to reach new consumers, generate additional streams of revenue, lower production costs, and diversify business risk. Yet, it can be a complicated journey. Political, economic, and cultural factors can add unexpected complexity and unpredictability that negatively impacts expansion efforts.

Companies need people with the knowledge and skills to assess international markets, understand the complexities, navigate the unpredictability, and determine appropriate strategies for entry.

This certificate offers both theoretical and practical learning, providing you with a nuanced understanding of the cultural, historical, political, and economic factors impacting the business environment of a specific geographical area. Throughout the program, you will apply theoretical concepts to real-world case studies, cementing your understanding of the unique cultural, historical, political, and economic facets of each region under study.

The Certificate in Entering Foreign Markets:

- can be completed online or in class
- is eligible for OSAP
- comprises degree-credit courses
- offers students the opportunity to apply all or most of the courses from the certificate as transfer credits to a Bachelor of Commerce degree program at the Ted Rogers School of Management or at other universities (subject to admission and the requirements of the degree to which you are applying)

What Will You Learn?

+

Who Should Take This Certificate?

+

Required Courses

[CGMS 200 Introduction to Global Management](#)

[CGMS 522 International Marketing](#)

[CMKT 100 Principles of Marketing](#)

Electives (select 1)

[CGMS 690 The North American Business Environment](#)

[CGMS 691 The Asian Business Environment](#)

[CGMS 692 The European Business Environment](#)

[CGMS 695 The Middle Eastern Business Environment](#)

[Express interest](#)

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 3 required courses
- 1 elective
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Contact Us +

Entrepreneurship and Small Business

Certificate

Do you have a business idea that you want to get off the ground?

Do you already own a small business and need help taking it to the next level?

This certificate gives you the entrepreneurial skills to succeed in an increasingly competitive marketplace. The more you know about identifying opportunities, developing a business plan, and scaling your idea, the more successful your business can become.

Designed to give you the tools and knowledge needed to launch, operate, and grow a Canadian business, this program provides practical skills from accomplished entrepreneurs and experienced instructors. The four required courses build skills in ideation, opportunity evaluation, business intelligence, and venture planning. Based on your business plan, and with the agreement of the academic coordinator, you choose the two elective courses that will best support your career success.

This program:

- offers both online and in-class learning
- is eligible for OSAP
- is comprised of degree credit courses
- allows students to choose elective courses that support their business goals
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 4 required courses
- 2 electives*
- Cumulative grade point average (GPA) of 1.67+

*You must consult with the academic coordinator. With the submission of an approved Continuing Education Certificate Exemption (Substitution/Directive) Form signed by the academic coordinator, you will complete 2 courses relevant to your

📅 Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) ↗

Required Courses -

[CENT 500 New Venture Startup](#)

[CENT 505 Small-Business Management](#)

[CENT 526 Entrepreneurial Behaviour and Strategy](#)

[CENT 601 Identifying Opportunities](#)

Electives (select 2) -

You must consult with the [academic coordinator](#). With the submission of an approved Continuing Education Certificate Exemption (Substitution/Directive) Form signed by the academic coordinator, you will complete 2 courses relevant to your entrepreneurial and small business interests (as indicated in your business plan developed in [CENT 500](#)).

entrepreneurial and small business interests (as indicated in your business plan developed in CENT 500).

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Professional Development **+**

Frequently Asked Questions **+**

Awards and Financial Aid **+**

Contact Us **+**

Environmental Sciences

Certificate

The Certificate in Environmental Sciences will not be accepting any new registrants. The certificate has been discontinued effective Fall 2019. Students formally registered in the certificate prior to July 2, 2019, must complete the program requirements in effect at the time they registered. For further information please contact ce@ryerson.ca

Required Courses —

[CKES 120 Environmental and Atmospheric Processes](#)

[CKES 170 Water Treatment](#)

[CKES 190 Renewable Energy and Green Technology](#)

[CKES 210 Applied Environmental Analysis](#)

[CKES 220 Environmental Law and Practice](#)

Electives (select one) —

[CKES 160 Waste Management](#)

[CKES 180 Site Assessment](#)

Ethics

Certificate



Help to defend and monitor ethical decision-making in your organization. Develop a knowledge and practice in applied ethics to develop personal and organizational codes of ethics. Learn to recognize, counsel, and train in analyzing and resolving ethical dilemmas.

The Certificate in Ethics is designed to provide you with relevant, university-level education if your career requires the ability to apply the principles of ethics in private and public sector organizations.

You may also be interested if you simply want to deepen your philosophical and ethical understanding.

Many of the courses in this certificate program are available in a fully online format.

What Will You Learn?	+	
Who Should Take This Certificate?	+	
Who Teaches the Courses?	+	
Industry and Careers	+	
Course Delivery Schedule	+	
Certificate Requirements	—	
<ul style="list-style-type: none"> • 1 required course • 5 electives* • Cumulative grade point average (GPA) of 1.67+ 		
<p>*You must take 2 selections from Electives – Group A and 3 selections from Electives – Group B (that you haven't already taken in Electives – Group A).</p>		
		Required Course —
		<u>COPH 200 Ethics Capstone Course</u>
		Electives – Group A (select 2) —
		<u>CPHL 302 Ethics and Health Care</u>
		<u>CPHL 307 Business Ethics</u>
		<u>CPHL 400 Human Rights and Justice</u>
		<u>CPHL 444 Ethics in Health Services Management</u>
		<u>CPHL 449 Philosophy of Punishment</u>
		<u>CPHL 500 Philosophy of the Natural Environment</u>
		<u>CPHL 503 Ancient and Modern Ethics</u>
		<u>CPHL 509 Bioethics</u>
		<u>CPHL 525 Environmental Ethics</u>
		<u>CPHL 530 Media Ethics</u>
		<u>CPHL 603 Modern and Contemporary Ethics</u>
		<u>CPHL 612 Philosophy of Law</u>
		<u>CPHL 614 Philosophy of Human Rights</u>
		Electives – Group B (select 3 not previously taken in Electives – Group A) —
		<u>CCRM 200 Criminal Law</u>
		<u>CCRM 322 Ethics in Criminal Justice</u>
		<u>CECN 321 Introduction to Law and Economics</u>
		<u>CECN 502 Economics of Energy and Natural Resources</u>
		<u>CECN 510 Environmental Economics</u>

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status

Awards and Financial Aid

+

Contact Us

+

[CENG 413 Colonial and Postcolonial Literatures](#)

[CENG 520 The Language of Persuasion](#)

[CENG 621 Women's Texts, Global Contexts](#)

[CENG 720 Persuasion from Plato to Present](#)

[CGMS 802 Ethics and Regulation of Int'l Bus](#)

[CHST 602 Propaganda!](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CLAW 122 Business Law](#)

[CLAW 525 The Law of the Marketplace](#)

[CLAW 529 Employment and Labour Law](#)

[CLAW 603 Advanced Business Law](#)

Next Offered: Spring/Summer 2020

[CMHR 600 Diversity and Inclusion in the Workplace](#)

[CMHR 640 Leadership](#)

[CODG 130 Legal and Ethical Issues in GIS and Digital Data](#)

[CPHL 302 Ethics and Health Care](#)

[CPHL 307 Business Ethics](#)

[CPHL 400 Human Rights and Justice](#)

[CPHL 401 Philosophy and Mass Culture](#)

[CPHL 444 Ethics in Health Services Management](#)

[CPHL 500 Philosophy of the Natural Environment](#)

[CPHL 503 Ancient and Modern Ethics](#)

[CPHL 507 Ethics and Disability](#)

[CPHL 509 Bioethics](#)

[CPHL 525 Environmental Ethics](#)

[CPHL 530 Media Ethics](#)

[CPHL 602 Health Policy: Ethics and Justice](#)

[CPHL 603 Modern and Contemporary Ethics](#)

[CPHL 612 Philosophy of Law](#)

[CPHL 614 Philosophy of Human Rights](#)

[CPHL 621 Non-Western Philosophy](#)

[CPHL 921 Intellectual Property and Technology](#)

[CPOG 424 Human Rights and Global Politics](#)

[CPPA 301 Administrative Law](#)

[CPSY 124 Social Psychology](#)

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2020

[CPSY 518 Environmental Psychology](#)

[CPSY 706 Personal Growth and Positive Psychology](#)

[CPSY 802 Death, Dying and Bereavement](#)

[CPSY 808 Community Psychology](#)

[CSOC 609 Women and Human Rights](#)

[CSOC 705 Law and Justice](#)

Facility and Property Management

Certificate



Equip yourself with the most important skills necessary for the facility and property management profession.

Almost every organization occupies buildings. These buildings serve as offices, warehouses, manufacturing centres, data centres, or other facilities to support business needs. Every building needs someone to manage it, whether it is a commercial office building, shopping mall, warehouse or data centre.

Facility managers and property managers are involved in issues including:

- technical
- environmental
- human resources
- space and leasing
- real estate strategy

They provide productive, safe, comfortable work environments for their organization's employees.

This certificate program can help you achieve your professional goals in an interesting and rewarding career. It combines direct facility and property management skills with the broader business and management knowledge needed to thrive in the profession.

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Take Ryerson degree-credit courses**
- **Apply for merit-based awards**

What Will You Learn?

Want to find out more or ask a question about the **Certificate in Facility and Property Management?**

Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses: 39-Hour Courses (select 6)

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDFM 102 Facility Management Fundamentals](#)

[CDFM 103 Project Planning, Design, and Management](#)

[CDFM 104 Building Operations and Maintenance](#)

[CDFM 105 Space Planning and Management](#)

[CDFM 106 Leadership, Strategy, Business](#)

[CDFM 107 Recruiting and Managing Employees and Procuring Contractors](#)

19.5-Hour Courses

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDFM 110 Leasing and Lease Administration](#)

[CDFM 111 Capital and Asset Management](#)

[CDFM 112 Risk, OHS, Regulations, and the Law](#)

[CDFM 113 Sustainability in Facilities](#)

[CDFM 114 Real Estate Planning and Development](#)

+

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 6 required courses
 - 2 19.5-hour courses are considered equivalent to one 39-hour course
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Successful completion of a minimum two-year post-secondary program

OR

- Mature student status with related professional experience and education

Recommended Course Sequence +

Awards and Financial Aid +

Frequently Asked Questions +

Course Delivery Schedule +

Contact Us +

Fashion Coordination and Styling

Certificate



Prepare to enter the exciting world of fashion communication, coordination, and styling. Build a solid knowledge foundation and creative expertise in the fashion world.

Fashion coordination and styling consultants have the ability to make clothing speak successfully.

This popular and highly competitive area of fashion communication requires:

- passion
- creativity
- drive
- a solid knowledge of design
- a strong ability to communicate

This certificate program offers a stimulating study of the visual language of clothing, which will prepare you to become a specialist in the exciting world of fashion.

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Finish your certificate faster through our intensive schedule option**
- **Apply for merit-based awards**

For more information on earning the full Certificate in Fashion Coordination and Styling through our intensive 13-week program, review the **Intensive Option** section below.

Required Courses

[CDFC 101 Fashion Coordination](#)

[CDFC 102 Fashion Styling](#)

[CDFC 103 Design Fundamentals in Fashion](#)

Next Offered: Spring/Summer 2020

[CDFC 104 Creating the Image](#)

Electives (select 4)

[CCMN 373 Fashion](#)

[Communication: Professional Approaches](#)

[CDFA 104 Fashion Drawing I](#)

[CDFA 110 Fashion Drawing II](#)

[CDFC 105 Fashion Shows and Special Events](#)

Next Offered: Spring/Summer 2020

[CDFC 106 Fashion, Culture, and Society](#)

[CDFC 107 Fashion Buying](#)

[CDFC 200 Fashion Photography](#)

[CENT 500 New Venture Startup](#)

[CFSN 703 Visual Merchandising and Display](#)

[CMKT 100 Principles of Marketing](#)

What Will You Learn?



Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 4 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience

Why Register for the Certificate? +

Awards and Financial Aid +

Frequently Asked Questions +

Intensive Option +

Contact Us +

Film Studies

Certificate



Build a solid foundation in the principles, contemporary theories, and techniques of the motion picture medium.

You may take one or more courses or workshops or choose to pursue the full certificate program, which is a basic professional program of study.

The certificate program is an excellent starting point if you want to pursue a career in the film industry or satisfy your curiosity about film and film production.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take a mix of online and in-class courses
- Take Ryerson degree-credit courses
- Get real industry experience through internship, practicum, or project-based opportunities
- Finish your certificate faster through our intensive schedule option
- Exhibit your creative work through special events
- Get assistance to help pay for this program through OSAP
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Film Studies**? Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses

[CDMP 129 Motion Picture Production I](#)

[CDMP 229 Motion Picture Production II](#)

[CMPF 107 Film Technology I](#)

[CMPF 300 Film Technology IV](#)

[CMPF 423 Film Technology III](#)

Electives (select 3)

You may select 3 39-hour electives or take courses totalling 117 hours.

[CDMP 120 Film History](#)

[CDMP 121 Film Theory](#)

[CDMP 125 Fiction Screenwriting](#)

[CDMP 126 Non-Fiction Screenwriting](#)

[CDMP 231 Short Filmmaking: On Location](#)

[CDMP 700 Advanced Screenwriting](#)

[CFPN 323 Sound Design for Digital Media I](#)

[CFPN 501 Scenography I: Art Direction](#)

[CFPN 502 Directing Screen Performance - Basic Principles](#)

[CFPN 531 Cinematography and Lighting Design I](#)

[CFPN 533 Sound Design for Visual Media II](#)

[CFPN 601 Scenography II - Production Design](#)

[CMPC 101 Visual Studies I](#)

[CMPF 301 Business of Film](#)

[CMPF 302 Business of Film II](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 5 required courses
- 3 39-hour electives (or courses totalling 117 hours)
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 60 percent

OR

- Mature student status with relevant professional experience

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Why Register for the Certificate? +

Awards and Financial Aid +

Intensive Option +

Peter Gerretsen Film Awards +

The Chang School Photography Exhibition +

Testimonials +

Our Students' Success: Where Are They Now? +

Contact Us +

Financial Mathematics Modeling and Predictive Analytics

Certificate



Required Courses

[CMTH 500 Introduction to Stochastic Processes](#)

Next Offered: Spring/Summer 2020

[CMTH 600 Computational Methods In Mathematics](#)

[CMTH 700 Financial Mathematics I](#)

!

[CMTH 800 Financial Mathematics II](#)

!!

This certificate is intended to provide professionals with the technical skills to perform predictive analytics. You will learn how to determine the value of financial derivatives and complex investments, and how to assess and analyze, through modeling frameworks, the associated benefits and risks of these instruments. You will attain a mastery of data analytics applied competencies and of financial mathematics, especially in the areas of stochastic processes and probability, in statistics, and in computation, together with an understanding of the highly complex operations of financial markets.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Learn how to determine the value of financial derivatives and complex investments. Gain skills in assessing and analyzing the associated benefits and risks of these instruments through modeling frameworks and predictive analytics.

Attain financial mathematics proficiency in the areas of stochastic processes and probability, statistics, and computation. Gain an understanding of the highly complex operations of financial markets.

If you have a background in economics, mathematics, science, engineering, or finance, this program can help you advance or change your career.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Course Sequence **+**

Certificate Requirements **—**

- 4 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria **—**

Recommended:

- Mature student status and evidence of university-level coursework in mathematics, economics, and/or finance, or equivalent (to be determined by the academic coordinator)

OR

- Mature student status and other relevant qualifications or relevant industry experience (to be determined by the academic coordinator)

Admission Interview/Placement Assessment

An interview/placement assessment is required for this program. Please contact the Academic Coordinator, Sebastian Ferrando, at ferrando@ryerson.ca and Anne-Marie Brinsmead, Program Director, Engineering, Architecture, and Science, at a2brinsm@ryerson.ca.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid **+**

Contact Us **+**

Financial Planning

Certificate



Required Courses

[CACC 522 Taxation for Managers and Financial Planners](#)

[CFIN 501 Investment Analysis](#)

[CFIN 502 Personal Financial Planning](#)

[CFIN 512 Risk Management and Insurance](#)

[CFIN 612 Retirement and Estate Planning](#)

[CFIN 812 Advanced Personal Financial Planning](#)

Designed to build on your background in accounting, finance, or management, this advanced certificate will help take your finance career to the next level.

Successful completion of this certificate will allow you to write the national examinations that lead to two certifications awarded by the Financial Planning Standards Council (FPSC): FPSC Level 1 Certification and the Certified Financial Planner (CFP®) designation.

Note that FP Canada is making changes to its certification programs, effective January 1, 2020.

This program:

- offers a combination of online and in-class learning
- is eligible for OSAP
- is comprised of university-level degree credit courses
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to the BComm program at Ryerson's Ted Rogers School of Management, subject to admission

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Professional Designations and Accreditation +

Testimonials +

Certificate Requirements -

- 6 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Required:

- [Certificate in Accounting – Finance](#) or equivalent **OR** undergraduate degree **OR** 3-year college diploma

PLUS all of the following courses or equivalents:

- [CACC 414 - Intermediate Accounting I](#)
- [CECN 104 - Introductory Microeconomics](#)
- [CECN 204 - Introductory Macroeconomics](#)
- [CFIN 300 - Managerial Finance I](#)
- [CFIN 401 - Managerial Finance II](#)
- [CLAW 122 - Business Law](#)
- [CQMS 102 - Business Statistics I](#)
- [CQMS 202 - Business Statistics II](#)

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be presented to the academic coordinator during the [Open House](#) or mailed to the address on the form.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Contact Us +

Food Security

Certificate



Food security focuses on ensuring people's right to food – creating sustainable food systems based on social justice and democratic decision-making.

This unique, fully online, leading-edge program explores food-related health and education issues, food policy, environmental sustainability, human rights, and alleviation of food insecurity.

Help address food issues by working in civil society organizations and public sector agencies in Canada and worldwide. Learn how to engage the private sector to initiate the transformation to a more equitable and sustainable system of production, processing, and marketing.

Our food security teaching team is recognized internationally in the field. Having lived and worked around the globe, they understand the challenges of implementing food security in Canada and the developing world.

This program received the 2013 Sloan-C Special Recognition for Pedagogical Innovation Award and the 2013 CAUCE Award of Excellence for Credit Programming under 48 Hours. This award-winning program can be completed entirely online.

Food Security graduate shares her passion for health and nutrition

Michelle Jaelin is using her skills to share her Chinese food heritage with other millennials.

[Read her story](#)

Required Courses

You may only select one of CFNP 250 or CFNY 404.

[CFNP 250 Markets, Food Systems/Food Policy](#)

[CFNY 403 Food Security Concepts and Principles](#)

[CFNY 404 Food Policy and Programs for Food Security](#)

[CFNY 405 Applied Research Methods and Evaluation](#)

Electives (select 3)

You may only select one of CFND 401 or CSOC 808.

You may only select one of CFNF 100 or CVFS 401.

You may only select one of CFNN 100 or CFNN 111.

[CFND 401 Social and Cultural Dimensions of Food](#)

[CFNF 100 Families and Health](#)

[CFNN 100 Nutrition and Health](#)

[CFNN 111 Introduction to Nutrition](#)

[CFNY 400 Selected Topics in Food Security](#)

[CFNY 407 Community Development and Food Security](#)

[CFNY 408 Urban Food Security](#)

[CFNY 409 Gender and Food Security](#)

[CFNY 510 Indigenous Food Systems in Canada](#)

[CINT 912 Community Development: International Field Experience](#)

[CSOC 808 Sociology of Food and Eating](#)

[CVFN 410 Understanding Urban Agriculture](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 3 required courses
- 3 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

[CVFN 411 Dimensions of Urban Agriculture](#)

[CVFN 412 Urban Agriculture Types](#)

[CVFN 413 Urban Agriculture Policy-Making](#)

[CVFS 401 Contemporary Family Issues](#)

Admission Criteria

—

Required:

- An undergraduate degree

OR

- 5 years of professional experience in a field relevant to food security work

OR

- A 3-year Baccalaureate study with a clear academic standing (at least a C average or GPA of 1.67)

Admission Interview/Placement Assessment

If you wish to apply to register for the Certificate in Food Security, you must first contact the Academic Coordinator, Reg Noble, who will assess whether you are eligible and answer any questions you might have about the program. If you're interested in taking individual courses, Ryerson University's general eligibility rules apply.

Experiential Learning

+

Awards and Financial Aid

+

Frequently Asked Questions

+

Testimonials

+

Related Programs

+

Course Delivery Schedule

+

Contact Us

+

Foundations of International Management

Certificate



Required Courses

[CGMS 200 Introduction to Global Management](#)

[CGMS 400 The Global Business Environment](#)

[CGMS 401 Operations Management](#)

[CGMS 102 Business Statistics I](#)

As globalization impacts traditional business models, it is not uncommon for managers to engage with stakeholders working in different countries, currencies, time zones, languages, and cultures. In this context, employers across sectors are in a global war for talent, competing for professionals who have the managerial skills and cultural understanding to work effectively in today's global business environment.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

In this certificate program, you will learn the basic business functions, operations, and processes of management in an international context. You will apply theory in real world case studies, simulations, and projects to demonstrate your understanding of how business is conducted in key geographic regions, taking into account the major cultural, political, and economic factors that shape approaches to business management internationally.

This program:

- offers both online and in-class learning
- is eligible for OSAP
- is comprised of degree credit courses
- includes all prerequisites for the Certificate in Advanced International Trade Management
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

What Will You Learn?



Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Certificate Requirements -

- 4 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Contact Us +

Fundamentals of Interior Design

Certificate



Learn the communication skills that inform the interior design industry. Explore the fundamentals of design thinking and gain a better understanding of how to communicate with space-enhancing and trades professionals.

Whether you choose to take just a few courses or pursue the full seven-course certificate, you will hone your design thinking skills to better communicate design intent within the interior design industry and the field of spatial design. The program will also introduce you to the traditional and contemporary skill sets used in the development of interior decor and space planning.

Courses increase in scope as you move through the certificate, building upon what you learn. Many courses are taught in studio-like settings, with instructors offering a supportive environment for you to test out your design ideas and strategies.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take Ryerson degree-credit courses
- Finish your certificate faster through our intensive schedule option
- Apply for merit-based awards

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Required Courses

—

[CDID 150 Design Theory](#)

[CDID 151 Interior Design I: Drafting](#)

[CDID 152 Interior Design I: Space Planning](#)

[CIRC 112 Introduction to Digital Communication](#)

Electives (select 3)

—

[CDID 153 Interior Materials and Finishes](#)

[CDID 155 Design Dynamics I: Portfolio 1](#)

[CDID 157 Kitchen and Bathroom Design](#)

[CIRC 113 Introduction to Visual Communication](#)

[CIRH 101 History of Interior Design 1850 - Present](#)

Want to find out more or ask a question about the **Certificate in Fundamentals of Interior Design?**

Express interest to connect with this program and receive updates.

[Express interest](#) 

Certificate Requirements —

- 4 required courses
- 3 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English and Mathematics)
 - With a minimum average of 60 percent

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Intensive Option +

Contact Us +

Fundraising Management

Certificate




Are you looking for a career with meaning? Are you passionate about giving back to your community? Do you want to raise money for a cause that you care about?

With over 170,000 charities across Canada, fundraising has become one of the most important growth areas for nonprofit organizations. Fundraising careers have grown by leaps and bounds over the last 10 years – and will continue to grow for the foreseeable future. Well-trained and informed fundraisers are key to building bridges between charities and donors. As a fundraiser, you can help organizations surpass their financial goals and create a community of loyal supporters.

This certificate program is designed to help you hone your understanding of fundraising tools and techniques, while developing your leadership and management skills. Through this six-credit program you will gain expertise in innovative fundraising methods, non-profit marketing and solicitations, and donor recognition. You will also learn about how to thank donors so that they continue to give generously.

[TalentEgg Talks Live Event March 3, 2020](#)

Krishan Mehta, Academic Coordinator, Certificate in Fundraising Management, chatted with TalentEgg regarding course requirements, course coverage, and what you can expect to get out of the program. [Watch the full video now!](#) 

TalentEgg Talks with the Chang School of Continuing Education



Required Courses

[CINP 912 Marketing for Nonprofits](#)

[CINT 916 Introduction to Fundraising](#)

[CVFM 201 Operations of Fundraising](#)

[CVFM 202 Donor Centered Fundraising](#)

Electives (select 2)

[CVFM 203 Fundraising Campaigns](#)

[CVFM 302 Entrepreneurial Fundraising](#)

[CVFM 303 Annual Giving Programs](#)

We are an Approved Provider for the Certified Fund Raising Executive (CFRE) certification. Full participation in each course is applicable for 39 points in Category 1.B – Education of the CFRE International application for initial certification and/or recertification.

This certificate can be completed entirely online.



What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Professional Designations and Accreditation +

Certificate Requirements -

- 4 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status

Awards and Financial Aid +

Frequently Asked Questions +

Testimonials



Course Delivery Schedule



Contact Us



Graphic Communications

Certificate



Join one of Canada's most dynamic and exciting industries. Printing is an \$11 billion industry in Canada, and graphic communications professionals are rewarded with challenging opportunities nationwide.

Turn bright ideas into creative concepts that inform, engage, and inspire. Explore the impact of signs, display graphics, direct marketing materials, books, magazines, and consumer packaging. Prepare layouts, files, proofs, and finished jobs in the printing industry. Learn how to use advanced hardware, software, and technology, and integrate printed communication with online mediums.

You can enrol directly into entry-level courses and most have no prerequisites. No interview or portfolio is required.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take Ryerson degree-credit courses
- Ladder to a Ryerson degree program – earn advanced standing through eligible degree-credit courses
- Get real industry experience through internship, practicum, or project-based opportunities
- Get assistance to help pay for this program through OSAP
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Graphic Communications?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

[CGCM 110 Introduction to Graphic Communications](#)

Next Offered: Spring/Summer 2020

[CGCM 120 Graphic Communications Processes 1](#)

[CGCM 130 Design and Layout](#)

Electives (select 3)

[CGCM 111 Graphic Communication Technologies](#)

[CGCM 121 Graphic Communications Processes 2](#)

[CGCM 210 Consumer Packaging](#)

[CGCM 230 Typography](#)

[CGCM 250 Binding and Finishing](#)

[CGCM 260 Digital Premedia Workflows](#)

[CGCM 360 Colour Management for Graphic Communications](#)

[CGCM 720 Magazine Production and Publishing](#)

[CGCM 738 Photoshopped! The Art of Image Retouching](#)

[CGCM 740 Accessibility for Graphic Communications](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers **+**

Certificate Requirements **-**

- 3 required courses
- 3 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits
 - With a minimum grade of 60 percent

OR

- Mature student status with relevant professional experience

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid **+**

Contact Us **+**

Health Informatics

Certificate



Meet the growing demand for skilled health informatics professionals!

In response to the need to deliver less expensive and higher quality healthcare, the field of health informatics is experiencing rapid evolution and growth.

Designed for Canadian and internationally educated professionals who have a background in health or information technology, this award-winning certificate allows you to choose the courses that will give you the skills you need for success in the dynamic field of health informatics.

This program:

- won the 2015 CAUCE Award of Excellence for Credit Programming Over 48 Hours
- can be completed online or in-class
- is eligible for OSAP
- is comprised of degree credit courses
- includes courses approved through Digital Health Canada to be used as Continuing Education hours towards the renewal of your CPHIMS-CA credential
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

[Express interest](#) 



Required Courses

[CHIM 305 Introduction to Health Informatics](#)

[CHIM 306 Healthcare Interoperability](#)

[CHIM 307 Human-Computer Interfaces in Healthcare](#)

[CHSM 301 The Healthcare Systems](#)

Electives (select 4)

If you do not have a background in health information, you should complete CHIM 303. You should select either CHIM 300 or CHSM 305, but not both, as they contain similar content. You should select CMHR 405 if you wish to pursue CMHR 650, as CHSM 437 does not provide a prerequisite for CMHR 650.

[CHIM 300 Managing Health Information Services](#)

[CHIM 301 Healthcare Information Analysis](#)

[CHIM 303 Intro to Health Coding Classification](#)

[CHIM 404 Introduction to Health Economics](#)

[CHIM 405 Issues in Health Information Management](#)

[CHSM 305 The Management Cycle](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 437 Human Resources Management in Healthcare](#)

[CIND 119 Introduction to Big Data](#)

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

What Will You Learn? 

Who Should Take This Certificate? 

Who Teaches the Courses? 

Industry and Careers	+	CITM 207 Computer-Enabled Problem Solving
Recommended Course Sequence	+	CITM 305 Systems Analysis and Design
Professional Designations and Accreditation	+	CITM 410 Business Process Design
Testimonial	+	CITM 500 Data and Information Management
Frequently Asked Questions	+	CITM 750 IS Project Management
Certificate Requirements	-	CLAW 401 Information Access and Privacy Protection
<ul style="list-style-type: none"> • 4 required courses • 4 electives* • Cumulative grade point average (GPA) of 1.67+ <p>*If you do not have a background in health information, you should complete CHIM 303.</p> <p>You should select either CHIM 300 or CHSM 305, but not both, as they contain similar content.</p> <p>You should select CMHR 405 if you wish to pursue CMHR 650, as CHSM 437 does not provide a prerequisite for CMHR 650.</p> <p>To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our Glossary of Terms. If certificate requirements change and courses are no longer available, you may request Course Substitutions/Directives. You must apply to graduate on my.ryerson (RAMSS) within the appropriate application deadlines (refer to Important Dates). Visit Graduation for details.</p>		CLAW 402 Health Information Access and Privacy
Admission Criteria	-	CMHR 405 Organizational Behaviour
<p>Required:</p> <ul style="list-style-type: none"> • Ontario Secondary School Diploma (OSSD) or equivalent <ul style="list-style-type: none"> ◦ With 6 Grade 12 U or M credits <p>OR</p> <ul style="list-style-type: none"> • Mature student status with relevant work experience <ul style="list-style-type: none"> ◦ With minimum of 1 year's related professional experience in the health or information technology sectors <p>Admission Application</p> <p>You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit Forms and Documents. The completed application, together with transcripts, may be submitted to Melissa Johnson, Program Coordinator, at m1johnso@ryerson.ca.</p> <p>If you are an undergraduate student, you should be aware of possible certificate restrictions. Check Curriculum Advising ↗ for complete details.</p>		CMHR 650 Management of Change
Professional Development	+	
Awards and Financial Aid	+	
Contact Us	+	

Health Services Management

Certificate



This certificate program provides management education for the health service industry, both now and in the foreseeable future. This program provides an opportunity for current and potential health care managers to increase their knowledge and skills in significant aspects of health service provision.

Many of the courses in the Health Services Management certificate program qualify for exemptions in the part-time degree completion program in Health Services Management.

Certificate Requirements

- 5 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

Required:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- A community college diploma in a related health services field

OR

- Mature student status

Required Courses

[CHSM 301 The Healthcare Systems](#)

[CHSM 305 The Management Cycle](#)

[CHSM 407 Healthcare Financial Management](#)

[CHSM 437 Human Resources Management in Healthcare](#)

[CLAW 326 Law for Health Managers](#)

Electives (select 2)

[CACC 100 Introductory Financial Accounting](#)

Next Offered: Fall 2020

[CCMN 279 Introduction to Professional Communication](#)

Next Offered: Spring/Summer 2020

[CHIM 300 Managing Health Information Services](#)

[CHIM 301 Healthcare Information Analysis](#)

[CHIM 303 Intro to Health Coding Classification](#)

[CHIM 305 Introduction to Health Informatics](#)

[CHIM 404 Introduction to Health Economics](#)

[CHIM 408 Statistics for Health Services Managers](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 307 Principles of Long Term Care Service Del.](#)

[CHSM 308 Project Management - Long Term Care](#)

[CHSM 309 Trends in Long Term Care Service Delivery](#)

[CHSM 310 Institutional Structure](#)

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be submitted to Melissa Johnson, Program Coordinator, at m1johnso@ryerson.ca.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

[CHSM 330 Managerial
Epidemiology for Healthcare](#)

[CHSM 408 Program Planning and
Evaluation](#)

[CHSM 417 Research Methodology](#)

Professional Development

+

Awards and Financial Aid

+

Contact Us

+

Health Studies

Certificate



The Certificate in Health Studies comprises specifically selected courses from other health-related Chang School certificate programs, such as Health Informatics, Health Services Management, Ethics, Psychology, and Aging and Gerontology. It provides a diverse set of courses that can fill gaps in your knowledge and skill set. If you are looking for depth in a particular area of study, you may instead choose to take the appropriate other health-related certificate. The Health Studies certificate will provide flexibility to choose courses that meet your professional development needs while allowing the opportunity to earn a certificate.

Through five elective courses in specialized streams of Health Informatics, Health Services Management, Health Ethics, Gerontology, and Psychology, learners are free to choose their own selection to equip them with specific knowledge pertinent to their personal goals or professional interests.

Certificate Requirements	+
Recommended Course Sequence	+
Admission Criteria	+
Professional Development	+
Awards and Financial Aid	+
Contact Us	+

Required Course —

[CHSM 301 The Healthcare Systems](#)

Electives (select 5) —

You may only select one of CCMN 279 or CCMN 314.

You may only select one of CPHL 302 or CPHL 509.

You may only select one of CPSY 102 or CPSY 105.

[CCMN 279 Introduction to Professional Communication](#)

Next Offered: Spring/Summer 2020

[CCMN 314 Professional Presentations](#)

[CHIM 301 Healthcare Information Analysis](#)

[CHIM 303 Intro to Health Coding Classification](#)

[CHIM 305 Introduction to Health Informatics](#)

[CHIM 306 Healthcare Interoperability](#)

[CHIM 307 Human-Computer Interfaces in Healthcare](#)

[CHIM 408 Statistics for Health Services Managers](#)

[CHSM 305 The Management Cycle](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 330 Managerial Epidemiology for Healthcare](#)

[CHSM 437 Human Resources Management in Healthcare](#)

[CINT 904 Health Promotion and Community Development](#)

[CINT 930 Aging: From Cells to Society](#)

[CINT 935 Ethical/Legal Frameworks in Aging](#)

[CINT 945 Technology and Aging Populations](#)

[CLAW 402 Health Information
Access and Privacy.](#)

[CPHL 302 Ethics and Health Care](#)

[CPHL 444 Ethics in Health
Services Management](#)

[CPHL 509 Bioethics](#)

[CPHL 602 Health Policy: Ethics
and Justice](#)

[CPSY 102 Introduction to
Psychology I](#)

Next Offered: Spring/Summer 2020

[CPSY 105 Perspectives in
Psychology.](#)

[CPSY 325 Psychological
Disorders](#)

[CPSY 605 Psychology of Health
and Health Care](#)

[CPSY 607 Drugs and Human
Behaviour](#)

[CPSY 802 Death, Dying and
Bereavement](#)

[CPSY 805 Adjustment, Stress
and Coping](#)

[CPSY 808 Community
Psychology.](#)

[CTEC 210 Fundamentals of
Project Management](#)

Human Resources Management

Certificate



Looking to enter the exciting world of Human Resources (HR)?

Already working in HR and want to expand or update your management skills?

Educated abroad and need a Canadian credential to help you reach your career or educational goals?

The Certificate in Human Resources Management is for you!

HR professionals are integral to the process of aligning business strategy with people strategy. They help recruit, reward, train, motivate, develop, and effectively utilize human capital to drive business results and ensure a high performance culture within their organization.

Many of the courses in this certificate qualify for exemptions in the Certified Human Resources Professional (CHRP) designation offered by the Human Resources Professionals Association (HRPA). Many HR professionals use several of the courses in this certificate towards their CHRP designation, a credential that is highly sought after by leading employers.

This program:

- offers a combination of online and in-class learning
- is eligible for OSAP
- is comprised of degree credit courses
- includes courses that qualify for exemptions in the Certified Human Resources Professional (CHRP) designation offered by the [Human Resources Professionals Association \(HRPA\)](#)
- offers students the opportunity to apply all, or most, of the credit earned through the certificate as transfer credits to a Bachelor of Commerce program at Ryerson or at other universities (subject to admission and the requirements of the degree to which you are applying)

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses

[CMHR 405 Organizational Behaviour](#)

[CMHR 523 Human Resources Management](#)

Electives (select 4)

[CLAW 529 Employment and Labour Law](#)

[CMHR 522 Union Management Relations](#)

[CMHR 600 Diversity and Inclusion in the Workplace](#)

[CMHR 623 Recruitment and Selection](#)

[CMHR 671 Human Resources Information Systems](#)

[CMHR 711 Occupational Health and Safety](#)

[CMHR 733 Training and Development](#)

Next Offered: Spring/Summer 2020

[CMHR 749 Compensation Management](#)

Next Offered: Spring/Summer 2020

[CMHR 849 Human Resources Planning](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 2 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience in business

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Professional Designations and Accreditation +

Testimonial +

Awards and Financial Aid +

Contact Us +

Image Arts (with specializations in Film Studies or Photography Studies)

Certificate

Do you want to enter into an exciting career in the film, photography, design, communications, or cultural industries? This certificate program can provide you with the knowledge and skills to perform responsibly in these industries as a professional in creative or managerial positions. Whether your interest lies in the highly commercial, artistic, or experimental, the curriculum can provide you with the necessary grounding to move on to advanced study in a variety of media-related academic and artistic disciplines.

Many students take this certificate program before applying or re-applying to undergraduate programs at Ryerson University's [School of Image Arts](#).

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Ladder to a Ryerson degree program – earn advanced standing through eligible degree-credit courses**
- **Exhibit your creative work through special events**
- **Get assistance to help pay for this program through OSAP**
- **Apply for merit-based awards**

Equipment/Facilities Use

Please note that equipment and facilities use outside of class time will not be provided. Extra time may be purchased.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 4 required courses
- 4 single-term courses (or equivalent) from Specialization*

Want to find out more or ask a question about the **Certificate in Image Arts (with specializations in Film Studies or Photography Studies)**? Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

—

[CMPC 101 Visual Studies I](#)

[CMPC 103 Art and the Classical Tradition](#)

[CMPC 201 Concepts and Theories](#)

[CMPC 203 Art in the Modern World](#)

Specialization in Film Studies

—

This certificate offers specializations in either Film Studies or Photography Studies. Complete the following courses to achieve the Specialization in Film Studies.

[CDMP 129 Motion Picture Production I](#)

[CMPF 107 Film Technology I](#)

[CMPF 290 Introduction to Film Studies](#)

Specialization in Photography Studies

—

This certificate offers specializations in either Film Studies or Photography Studies. Complete the following courses to achieve the Specialization in Photography Studies.

[CDFP 328 Photography Production I](#)

[CDFP 329 Photography Production II](#)

[CDFP 333 Photography and Digital Imaging](#)

[CDFP 358 Photography and the Screen](#)

- Cumulative grade point average (GPA) of 1.67+

*This certificate offers specializations in either Film Studies or Photography Studies. You must fulfil the requirements of one of these two areas as listed.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum grade of 60 percent

OR

- Mature student status with relevant professional experience

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Why Register for the Certificate? +

Awards and Financial Aid +

Frequently Asked Questions +

The Chang School Photography Exhibition +

Peter Gerretsen Film Awards +

Contact Us +

Information Systems Management

Certificate



Virtually every type of business today relies on information technology. Whether banking online, ordering a pizza, monitoring patients in a hospital, or publishing a newspaper, organizations must develop systems that serve their customers and help them succeed.

Computers, the Internet, wireless communications, databases – all are forms of information technology which are used to collect, analyze, and share information.

Information systems management examines how this technology can be used effectively in an ever-changing business context. Courses focus on how to develop and manage information systems to meet the strategic needs of business and government.

This certificate stands alone as an introduction to the IT management field, but it also provides a smooth transition either to another more specialized certificate or to the Business Technology Management degree program. The number of eligible courses that can be used towards the degree will depend on the curriculum in effect at the time of admission to the degree program.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses

You may only select one of CITM 100 or CITM 102.

[CITM 100 Foundations of Information Systems](#)

[CITM 102 Business Information Systems I](#)

[CITM 207 Computer-Enabled Problem Solving](#)

[CITM 301 IT Infrastructure](#)

[CITM 305 Systems Analysis and Design](#)

[CITM 500 Data and Information Management](#)

Electives (select one)

[CITM 200 Fundamentals of Programming](#)

[CITM 315 Server Administration](#)

[CITM 350 Concepts of e-Business](#)

Certificate Requirements

- 5 required courses
- 1 elective
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria




Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Awards and Financial Aid



Contact Us



Landscape Design

Certificate

High Park Tour with Sam Benvie



Gain the essential knowledge and skills for landscape design at residential and small commercial scales. Learn how to analyze, plan, design, manage, and sustain the built and natural environment.

This certificate has been developed by experienced instructors and is aimed at working professionals – those who are currently working in landscape design or aspiring to join this dynamic industry.

Courses are offered in a combination of lectures, field trips, studios, seminars, and other interactive learning opportunities. We have graduates working in landscape design across Canada.

This certificate provides an educational basis for students interested in the Landscape Industry Certified Designer designation provided by Landscape Ontario. Many of our students also use this certificate as a stepping stone to apply to graduate studies in Landscape Architecture if they have an unrelated undergraduate degree.

You can choose to complete this certificate in class or through fully online courses from wherever you are.

If you're interested, we recommend you start by contacting Sam Benvie, Academic Coordinator, at sbenvie@ryerson.ca, for a full discussion of this program and its value to landscape design careers.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

[CKLA 300 Landscape Design Communications and Theory](#)

[CKLA 310 Landscape Construction, Materials and Methods](#)

[CKLA 320 Plant Materials](#)

[CKLA 330 Landscape Design Studio](#)

Electives (select 2)

[CKLA 400 Ecology and Sustainable Landscapes](#)

[CKLA 420 Art and Management of Planting Design](#)

[CKLA 440 Landscape Design LANDWorksCAD PRO](#)

[CKLA 450 Landscape Restoration](#)

What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses?



Industry and Careers **+**

Certificate Requirements **-**

- 4 required courses
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria **-**

Recommended:

- A post-secondary undergraduate education (university or college) in a relevant field of study (including programs related to architecture and/or environmental sciences)

OR

- Mature student status with relevant work experience

Recommended Course Sequence **+**

Professional Designations and Accreditation **+**

Frequently Asked Questions **+**

Awards and Financial Aid **+**

Course Delivery Schedule **+**

Contact Us **+**

Leadership in Organizations

Certificate



What does it take to help others be successful? Are people born with the ability to lead, or is it something that can be learned?

In this certificate, you will develop the ability to influence, motivate, and enable others to contribute towards the effectiveness and success of your organization. You will gain the organizational leadership and management skills that are critical to success in any job and in any sector.

Our certificate program offers a dynamic curriculum that is taught by outstanding instructors who are able to relate real-life experiences to complex topics. You will be joined by a class of like-minded individuals looking to pursue a greater understanding of leadership within organizations and apply leadership skills to their own lives.

The Certificate in Leadership in Organizations:

- offers a combination of online and in-class learning
- is eligible for OSAP
- comprises university-level degree credit courses
- offers students the opportunity to apply all or most of the courses from the certificate as transfer credits to a Bachelor of Commerce program at the Ted Rogers School of Management or at other universities (subject to admission and the requirements of the degree to which you are applying)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

Required Courses

—

[CMHR 405 Organizational Behaviour](#)

[CMHR 640 Leadership](#)

Electives (select 4)

—

[CMHR 650 Management of Change](#)

[CMHR 700 Cross-Cultural Dimensions of Organizational Behaviour](#)

Next Offered: Spring/Summer 2020

[CMHR 721 Negotiation and Conflict Resolution](#)

[CMHR 741 Managing Interpersonal Dynamics and Teams](#)

[CMHR 841 Organization Theory and Design](#)

[CMHR 850 Coaching, Facilitation and Internal Consulting](#)

- 2 required courses

- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid **+**

Testimonial **+**

Contact Us **+**

Lighting Design

Certificate



Develop a broad knowledge base and wide range of skills for the lighting industry through this multidisciplinary certificate.

Explore the relationship between light and the built environment, both electrically and naturally.

Many changes are taking place in the lighting industry due to legislative acts that limit energy budgets for new construction and retrofitting. There is an increasing need for buildings that are both environmentally responsible and ergonomically sound, with enhanced vision for health and safety.

This certificate program will prepare you to advance in this exciting and dynamic industry.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take Ryerson degree-credit courses
- Get real industry experience through internship, practicum, or project-based opportunities
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Lighting Design**? Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

- [CDID 501 Lighting Fundamentals](#)
- [CDID 503 Introduction to Lighting Design](#)
- [CDID 504 Lighting Energy Management](#)
- [CDID 505 Lighting Photometric Software](#)
- [CDID 550 Introduction to Daylighting Design](#)
- [CDID 551 Advanced Lighting Design](#)

Electives (select 1)

- [CDID 552 Entertainment Lighting Design](#)
- [CDID 553 Lighting Design Practicum](#)
- [CDID 554 Lighting Research Practicum](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 6 required courses
- 1 elective
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- An undergraduate degree

OR

- Mature student status with related professional experience and education

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Why Register for the Certificate? +

Awards and Financial Aid +

Our Partner +

LIT 101: LightForm's Tuition Reimbursement Opportunity +

Contact Us +

Local Economic Development

Certificate



Required Courses

[CPLE 795 Local Economic Development Fundamentals](#)

[CPLE 995 Ecn Development and Business Improvement](#)

[CVUP 155 LED Applied Research Project](#)

Next Offered: Spring/Summer 2020

[CVUP 160 Capstone Project in LED](#)

This certificate may be completed entirely online.

Enhance your skills and knowledge and thrive in public and private local economic development (LED) positions. This four-course certificate is designed for entry-level, experienced, and advanced economic development professionals. It will prepare you to successfully address the current and emerging area of LED in the Canadian context. You may apply courses towards the educational requirements for your [Certified Economic Developer \(EcD\)](#) certification.

This certificate provides skill development opportunities in creativity and innovation, critical thinking and problem solving, and collaboration and flexibility, allowing you to be able to respond to current LED challenges.

Our Partners

This certificate is aligned to current competencies and foundational knowledge areas represented by both the Economic Developers Association of Canada (EDAC) and the International Economic Development Council (IEDC).

The certificate is offered in cooperation with the following international, national, and provincial professional associations:



What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses? +

Professional Designations and Accreditation +

Industry and Careers +

Certificate Requirements -

- 4 required courses
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 60 percent

OR

- An undergraduate degree

OR

- A college diploma

OR

- Mature student status with combination of relevant work and life experience

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Experiential Learning +

Testimonials +

Awards and Financial Aid +

Frequently Asked Questions +

Contact Us +

Media Writing Fundamentals

Certificate

Gain a thorough overview of the various forms of writing for the electronic media, including dramatic writing, commercial writing, and writing for factual programs. Develop an introductory portfolio of written material, including broadcast news, commercials, and television scripts.

Drawing on curriculum from Ryerson University's [RTA School of Media](#), these professional courses are designed for students interested in pursuing or advancing their careers in communications and electronic media.

This program offers the following benefits:

- Take a mix of online and in-class courses
- Take Ryerson degree-credit courses
- Get assistance to help pay for this program through OSAP
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Media Writing Fundamentals**? Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

[CRTA 102 Creative Processes](#)

[CRTA 212 Media Writing](#)

Electives (select 5)

[CDMP 125 Fiction Screenwriting](#)

[CDMP 126 Non-Fiction Screenwriting](#)

[CRTA 941 Dramatic Writing](#)

Next Offered: Spring/Summer 2020

[CRTA 942 Advertising Copywriting](#)

[CRTA 943 Comedy Writing](#)

[CRTA 944 Writing for Animation](#)

[CRTA 945 Writing for Factual and Reality Programs](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 2 required courses
- 5 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

—

Recommended:


- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including OAC English or Grade 12 U English (ENG4U))
 - With a minimum average of 70 percent

OR

- Mature student status

Admission Application

You must complete an application for pre-approval and be approved before registering for your first course. To obtain an application, visit [Forms and Documents](#). The completed application, together with transcripts, may be presented to the academic coordinator during the [Open House](#) or mailed to the address on the form.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Why Register for the Certificate?

+

Awards and Financial Aid

+

Frequently Asked Questions

+

Contact Us

+

Mental Health and Addictions

Certificate



Build a foundation of psychological concepts and learn how to describe and understand:

- Mental Health
- Mental Health Disorders
- Addictions
- Interventions

Learn more about assessment, treatment, and self-help strategies within individual, group, family, and community contexts.

This certificate program will provide you with a comprehensive curriculum in mental health and addictions education, to deal with employees, clients, family members, and friends, through your place of employment, volunteer activities, or personal situations.

This is an **Open Admissions** program, which means you do not need to apply before enrolling in courses. It is comprised of degree-credit courses that you may potentially transfer towards an undergraduate degree program.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 4 required courses
- 6 electives*
- Cumulative grade point average (GPA) of 1.67+

*Select 2 (or 3) selections from Electives – Group A and 3 (or 4) courses from Electives – Group B.

Required Courses

—

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2020

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2020

[CPSY 215 Psychology of Addictions](#)

[CPSY 325 Psychological Disorders](#)

Electives – Group A (select 2 or 3)

—

You may only select 1 of CPSY 214 or CPSY 607. If you choose to take 2 courses from this category, you will need to complete 4 courses from Electives – Group B to fulfill the certificate requirements; if you take 3 courses, you will need to complete 3 courses from Electives – Group B.

[CPSY 214 Psychopharmacology](#)

[CPSY 324 Biological Psychology](#)

Next Offered: Spring/Summer 2020

[CPSY 335 Clinical Psychology](#)

Next Offered: Spring/Summer 2020

[CPSY 607 Drugs and Human Behaviour](#)

Electives – Group B (select 2 or 4)

—

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2020

[CPSY 302 Child Development](#)

[CPSY 412 Human Brain Circuitry](#)

[CPSY 602 Developmental Psychopathology](#)

[CPSY 605 Psychology of Health and Health Care](#)

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with 3 years of professional experience in business, community service, or industry

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid

+

Contact Us

+

[CPSY 620 Psychology of Immigration](#)

[CPSY 621 Psychology of Human Sexuality](#)

Next Offered: Spring/Summer 2020

[CPSY 682 Sleep](#)

[CPSY 802 Death, Dying and Bereavement](#)

[CPSY 805 Adjustment, Stress and Coping](#)

[CPSY 806 Behaviour Modification](#)

[CPSY 808 Community Psychology](#)

Music: Global and Cultural Contexts

Certificate



Explore musical creation in all its rich diversity. Learn about complex music from around the globe – from ancient times to the modern age. Hone your skills in critical thinking, analysis, and writing. Study the ways music reflects and responds to shifting cultural, social, political, and historical environments.

If you are interested in the study and practice of music for personal enrichment, academic progress, or professional development, this program is for you.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonials

+

Certificate Requirements

—

- 1 required course*
- 5 electives
- Cumulative grade point average (GPA) of 1.67+

*You can select either CMUS 101 or CMUS 106 as your required course, or take both. If you choose to take both, you only need to complete four electives to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Required Courses

—

You can select either CMUS 101 or CMUS 106 as your required course, or take both. If you choose to take both, you only need to complete 1 course from Electives – Group A to fulfill the certificate requirements.

[CMUS 101 Intro to World and Early European Music](#)

[CMUS 106 The Architecture of Music](#)

Electives – Group A (select 1 or 2)

—

[CMUS 105 Voices Without Borders: Global Chorus](#)

[CMUS 211 Music Cultures of the City](#)

[CMUS 401 Music, Religion and Spirituality](#)

[CMUS 501 Music of World Cultures](#)

Electives – Group A (select 3)

—

[CMUS 201 Introduction to Classical Music](#)

[CMUS 303 Global Guitar](#)

[CMUS 503 Social Issues in Popular Music](#)

[CMUS 505 Popular Music and Culture](#)

Next Offered: Spring/Summer 2020

[CRTA 180 Music and Film](#)

Next Offered: Spring/Summer 2020

[CRTA 183 Rhythm, Beat and Groove](#)

[CRTA 406 Chinese Instrumental Music](#)

[CRTA 530 Chinese Music](#)

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits, including English
 - With a minimum grade of 70 percent

OR

- Mature student status with relevant work experience

Awards and Financial Aid

+

Contact Us

+

News Studies

Certificate



Learn how journalists gather, report, analyze, and explain what is considered news.

The courses in this program will introduce you to:

- the history, practice, theory of journalism
- ethical standards of journalism

Combine theory and practice to explore specific areas of content and media.

You may be interested in this program if your work intersects with journalists or media relations professionals. You may also be interested if you want to learn more about news and the media, or if you are interested in pursuing a career in communications.

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take Ryerson degree-credit courses**
- **Get assistance to help pay for this program through OSAP**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Certificate in News Studies?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Course

[CNNS 101 Introduction to News Studies](#)

Electives (select 5)

[CNNS 102 Understanding Multimedia Journalism](#)

[CNNS 344 Making a Difference: How Journalism Matters](#)

Next Offered: Spring/Summer 2020

[CNNS 401 History of Journalism](#)

[CNNS 404 Journalism's Best](#)

[CNNS 410 Queer Media](#)

[CNNS 412 Documentary Survey](#)

[CNNS 419 Journalism in Comedy](#)

[CNNS 500 Journalism and the Arts](#)

[CNNS 502 Journalism and the World of Business](#)

[CNNS 505 Health and Science Journalism](#)

[CNNS 512 Reporting Sports](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

-

- 1 required course

- 5 electives
- Cumulative grade point average (GPA) 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid **+**

Contact Us **+**

Nonprofit and Voluntary Sector Management

Certificate

The Chang School Certificate in Nonprofit and Voluntary Sector Management



Help contribute to the quality of life in Canada through the nonprofit and voluntary sector. Nonprofits and charities engage residents and develop communities, provide important programs and services, and contribute to innovation and change. Nonprofits support, excite, and connect us to work together on shared visions for our future.

Learn directly from knowledgeable instructors who have experience with the subject matter and understand the diverse and growing range of nonprofit organizations in Canada.

We created this distinctive interdisciplinary certificate program to respond to the growing demand for education that focuses on the specific needs of the sector. Launched in 1998, this was the first interdisciplinary university certificate program in nonprofit and voluntary sector management in Canada.

Three quarters of respondents to an Ontario survey commented that a certificate program like this one was very effective in helping individuals prepare for leadership roles in the sector. In a recent survey, our graduates identified the content and structure of the program as key highlights, with a variety of course delivery methods (in-class, online, and hybrid) and content that is relevant, up-to-date, challenging, informative, and insightful. More than 80 percent said they had applied what they learned in their workplace with positive impacts. All respondents said they would recommend the program.

This certificate can be completed entirely online, through in-class courses, or through a combination of online and in-class learning.

What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses?



Required Courses



You may only select one of CINF 902 or CINF 915.

[CINF 900 Understanding the Nonprofit Sector](#)

[CINF 901 Effective Nonprofit Organizations](#)

[CINF 902 Evaluation for Nonprofits](#)

[CINF 915 Financial Management for Nonprofits](#)

[CINF 920 Critical Issues in the Nonprofit Sector](#)

Electives (select 4 not previously taken in Required Courses)



[CINF 902 Evaluation for Nonprofits](#)

[CINF 910 Strategic Planning for Nonprofits](#)

[CINF 911 Advocacy and Gov't Relations: Nonprofits](#)

[CINF 912 Marketing for Nonprofits](#)

[CINF 913 Leadership in Nonprofits](#)

[CINF 914 Diversity in Nonprofits](#)

[CINF 915 Financial Management for Nonprofits](#)

[CINF 916 Nonprofits on the Global Stage](#)

Industry and Careers **+**

Certificate Requirements **-**

- 4 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#).

You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Note: All courses in the certificate are undergraduate level credit courses.

All courses in this certificate are offered online and in class.

Admission Criteria **-**

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Recommended Course Sequence **+**

Awards and Financial Aid **+**

Frequently Asked Questions **+**

Course Delivery Schedule **+**

Contact Us **+**

Occupational Health and Safety Leadership

Certificate



Required Courses

[CMHR 640 Leadership](#)

[COHS 477 Disability Management](#)

[CTEC 210 Fundamentals of Project Management](#)

[COHS 840 Leadership and Ethics](#)

Prepare yourself for leadership roles, responsibilities, and management in the field of occupational health and safety (OHS). Learn from industry experts to enhance your OHS knowledge and learn to lead from a management perspective. The courses in this program focus on project management, leadership, ethics, and ability management for OHS leaders.

You can choose to complete this certificate program on campus, through online courses, or through a combination of both modes.

By completing this program after the [Certificate in Occupational Health and Safety](#) and the [Certificate in Advanced Safety Management](#), you will be academically prepared to successfully complete the Board of Canadian Registered Safety Professionals (BCRSP) exam to become a Canadian Registered Safety Professional (CRSP).

This is one of the few certificate programs in Ontario that meets CRSP educational requirements.

This certificate is eligible for OSAP.

What Will You Learn?	+
Industry and Careers	+
Who Should Take This Certificate?	+
Who Teaches the Courses?	+
Professional Designations and Accreditation	+
Certificate Requirements	-

- 4 required courses

- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Required:

- [Certificate in Occupational Health and Safety](#)

OR

- [Certificate in Advanced Safety Management](#)

OR

- Equivalent

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid

+

Frequently Asked Questions

+

Contact Us

+

Occupational Health and Safety

Certificate

The Chang School Certificate in Occupational Health and Safety



Join a field of in-demand professionals dedicated to individual and social well-being across countless industries. Expand your occupational health and safety (OHS) skills to develop, implement, manage, and evaluate programs to help ensure safe and healthy workplaces.

You can choose to complete this certificate program on campus, through online courses, or through a combination of both delivery options. Many of our courses are also offered in an intensive format on campus during the Spring/Summer term, so you can complete a full credit in as little as a week. With some careful planning, you may be able to complete the full certificate over the Spring/Summer term by taking the in-class intensives and a few online courses.

Courses are drawn from Ryerson University's Bachelor of Applied Science in Occupational and Public Health (BASc). This program can give you advanced standing should you wish to pursue the BASc. Offered through the [School of Occupational and Public Health](#), the BASc is the only degree-level program of its kind in Canada.

This program meets the education components required for certification as a Canadian Registered Safety Technician (CRST) through the Board of Canadian Registered Safety Professionals (BCRSP). After completing this certificate, you may continue on to our two other health and safety certificates – [Advanced Safety Management](#) and [Occupational Health and Safety Leadership](#) – to satisfy the educational requirements to take the Canadian Registered Safety Professional (CRSP) Board exam.

This certificate is eligible for OSAP.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Required Courses

[CCMN 114 Short Management Reports](#)

[COHS 208 Occupational Health and Safety Law](#)

Next Offered: Spring/Summer 2020

[COHS 508 Occupational Health and Safety](#)

[COHS 608 Hazard Recognition and Control](#)

[COHS 718 Systems Management I](#)

[CVOH 217 Measurement and Analysis](#)

[CVOH 221 Topics in Occupational Health and Safety](#)

Electives (select 1)

[CMHR 405 Organizational Behaviour](#)

[CPPA 101 Cdn Public Administration I: Institutions](#)

Industry and Careers +

Professional Designations and Accreditation +

Certificate Requirements -

- 7 required courses
- 1 elective
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Intensive Option +

Awards and Financial Aid +

Frequently Asked Questions +

Testimonials +

Contact Us +

Photography Studies

Certificate

Achievers at The Chang School - Photography Studies



Learn, upgrade, or master photography skills. Discover your creative potential. Turn your passion into a profession.

Focus on photography production and create a number of portfolios to change or advance your career.

Photography is an important medium of communication in industry, sales and advertising, government, education, the press, and the arts. The demand for properly trained and qualified photographers continues to grow.

Our Photography Studies courses can help you make a career change; establish your own photography business; improve your chances for jobs in photography-related fields; or prepare to apply for a degree program in photography.

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Take Ryerson degree-credit courses
- Ladder to a Ryerson degree program – earn advanced standing through eligible degree-credit courses
- Finish your certificate faster through our intensive schedule option
- Exhibit your creative work through special events
- Apply for merit-based awards

Want to find out more or ask a question about the **Certificate in Photography Studies**? Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses

[CDFP 328 Photography Production I](#)

[CDFP 329 Photography Production II](#)

[CDFP 391 History of Photography I](#)

Electives: 39-Hour Courses (select 5)

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDFP 320 Analog Photography](#)

[CDFP 322 Photography for Ad Agencies](#)

[CDFP 332 Digital Printing](#)

[CDFP 333 Photography and Digital Imaging](#)

[CDFP 353 From Still to Motion](#)

[CDFP 358 Photography and the Screen](#)

[CDFP 367 Photoshop for Photographers](#)

[CDFP 378 20th Century Photography](#)

[CDFP 381 Advanced Fashion Photography](#)

[CDFP 382 Advanced Portrait Photography](#)

[CDFP 389 Studio Lighting I](#)

[CDFP 390 Studio Lighting II](#)

[CDFP 392 Documentary Photography](#)

[CDFP 398 History of Photography II](#)

[CDFP 403 Creative Wedding Photography](#)

[CDFP 404 Magazine/Editorial Photography](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers	+	CDFP 405 Architectural Photography
Testimonial	+	CDFP 415 Studio Lighting III
Certificate Requirements	—	CDFP 905 Contemporary Photographic Art
<ul style="list-style-type: none"> • 3 required courses • 5 39-hour electives <ul style="list-style-type: none"> ◦ 2 19.5-hour courses are considered equivalent to 1 39-hour course • Cumulative grade point average (GPA) of 1.67+ <p>To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our Glossary of Terms. If certificate requirements change and courses are no longer available, you may request Course Substitutions/Directives. You must apply to graduate on my.ryerson (RAMSS) within the appropriate application deadlines (refer to Important Dates). Visit Graduation for details.</p>		CDFP 918 Photojournalism
Recommended Course Sequence	+	CFPN 532 Advanced Studio Lighting
Admission Criteria	—	CFPN 536 Media Business Practices
Recommended:		CFPN 539 The Human Figure
<ul style="list-style-type: none"> • Ontario Secondary School Diploma (OSSD) or equivalent <ul style="list-style-type: none"> ◦ With 6 Grade 12 U or M credits (including English) ◦ With a minimum average of 60 percent <p>OR</p> <ul style="list-style-type: none"> • Mature student status with professional experience <p>If you are an undergraduate student, you should be aware of possible certificate restrictions. Check Curriculum Advising ↗ for complete details.</p>		CFPN 543 Historical Processes Workshops
Awards and Financial Aid	+	Electives: 19.5-Hour Courses
Intensive Option	+	2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.
Course Series in Creative Photography	+	CDFP 312 Art Direction for Ad Agencies
Frequently Asked Questions	+	CDFP 414 Traditional Photography
The Chang School Photography Exhibition	+	CDFP 432 Digital Printing Workshop
Contact Us	+	CDFP 907 Using a 4X5 View Camera

Privacy, Access, and Information Management

Certificate

Hot Careers Spotlight: The Privacy Professional



In today's rapidly evolving digital economy, individual privacy and the security of personal information have never been more important. High-profile breaches, heightened surveillance, increased access to data – each of these trends presents new and serious challenges for organizations and contributes to an increased demand for skilled privacy professionals.

Our Certificate in Privacy, Access, and Information Management is a cross-disciplinary program that prepares you to address the complexity of these issues. It has been designed by industry experts to help you acquire the knowledge and expertise to tackle challenges surrounding the privacy of, and access to, personal information. With a focus on privacy governance and regulatory frameworks, information systems, and emerging technologies, you will develop knowledge and skills in three key areas:

- Privacy governance and policy
- Information technology
- 21st century soft skills: creativity, innovation, and critical thinking

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

[CLAW 401 Information Access and Privacy Protection](#)

[CZIT 427 Data and Info. Mgmt for Privacy](#)

[CZLW 327 Privacy By Design](#)

[CZLW 527 Applying Privacy and Access](#)

Electives (select 2)

[CDPR 100 Public Relations Principles](#)

[CHIM 305 Introduction to Health Informatics](#)

[CITM 301 IT Infrastructure](#)

[CITM 820 Information Systems Security and Privacy](#)

[CLAW 122 Business Law](#)

[CLAW 402 Health Information Access and Privacy](#)

[CMHR 405 Organizational Behaviour](#)

[CMHR 650 Management of Change](#)

[CPPA 403 e-Government](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

What Are the Benefits to My Employer If I Take the Certificate? +

What Does It Take to Be a Privacy Professional? +

Testimonials +

Frequently Asked Questions +

Certificate Requirements +


Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (including English)
 - With a minimum average of 60 percent

OR

- Mature student status

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#)  for complete details.

Professional Development -

Professional Development Award: [Introduction to Privacy, Access, and Information Management](#) requires completion of [CLAW 401](#), [CZIT 427](#), and [CZLW 327](#).

Awards and Financial Aid +

Contact Us +

Proficiency in French

Certificate



Develop a wide range of French language skills. Learn to converse and write in one of Canada's official languages.

French language skills can lead to success in business or as part of a university degree. Whether you want to learn French for personal or business reasons, this certificate will help you build the speaking and writing skills that meet your goals.

Our program offers opportunities to enhance your professional qualifications, prepare for travel, and become a more informed Canadian citizen. Our experienced and qualified instructors work with your needs in mind. Courses are interactive and taught with multimedia, making learning fun and effective.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 6 courses*
- Cumulative grade point average (GPA) 1.67+

*If you enter the certificate at a proficiency level below CFRE 501, you must successfully complete 6 courses. However, If granted advanced placement (through the placement assessment), you only need to complete 4 advanced level courses (CFRE 501 or higher) to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and

Lower and Intermediate Level Courses

—

[CFRE 201 Introductory French II](#)

[CFRE 301 Intermediate French I](#)

[CFRE 401 Intermediate French II](#)

[CFRE 402 French Conversation and Pronunciation](#)

Advanced Level Courses

—

[CFRE 501 Speaking and Writing French I](#)

[CFRE 502 Communication and Business French](#)

[CFRE 505 French Language and Culture](#)

[CFRE 507 English-French Translation I](#)

[CFRE 508 Intro to 20th C French Literature I](#)

[CFRE 509 Franco-Canadian Literature I](#)

[CFRE 510 Effective Writing](#)

[CFRE 515 Introduction to Business French](#)

[CFRE 601 Speaking and Writing French II](#)

[CFRE 602 Business French in Practice](#)

[CFRE 605 Francophone Language and Culture](#)

[CFRE 607 English-French Translation II](#)

[CFRE 608 Intro to 20th C French Literature II](#)

[CFRE 609 Franco-Canadian Literature II](#)

[CFRE 610 Cultural Context of Writing](#)

[CFRE 701 French for Today](#)

courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

- Successful completion of Introductory French I ([CFRE 101](#))
 - With a minimum grade of C+

OR

- Admission by placement assessment

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Placement Assessment

+

Awards and Financial Aid

+

Contact Us

+

[CFRE 704 Intro to Franco-Canadian Culture I](#)

[CFRE 706 The Life and Times of the French Language](#)

[CFRE 707 Introduction to French-English Translation](#)

[CFRE 801 French and New Media](#)

[CFRE 803 French Theatre: 20th C and Contemporary](#)

[CFRE 804 Intro to Franco-Canadian Culture II](#)

[CFRE 805 French Language Teaching Methodologies](#)

[CFRE 903 The Francophone Short Story](#)

Proficiency in Spanish

Certificate



Develop a wide range of Spanish language skills. Learn to converse and write in one of the world's most widely spoken languages.

Spanish language skills can lead to success in business or as part of a university degree. Whether you want to learn Spanish for personal or business reasons, this certificate will give you the oral and written skills that meet your goals. Our program offers opportunities to increase professional qualifications, prepare for travel, and become a more informed citizen in a globalized world.

We offer five levels of language courses, along with a range of advanced and specialized courses. While colleges and other universities offer primarily conversational Spanish, our certificate provides relevant degree-credit courses in small-classroom settings.

Required Courses

[CSPN 201 Introductory Spanish II](#)

[CSPN 301 Intermediate Spanish I](#)

[CSPN 401 Intermediate Spanish II](#)

[CSPN 501 Advanced Spanish I](#)

[CSPN 601 Advanced Spanish II](#)

Electives (select 1)

[CSPN 402 Spanish Conversation and Pronunciation](#)

[CSPN 510 Spanish for Native Speakers](#)

[CSPN 515 Introduction to Business Spanish](#)

[CSPN 610 Spanish Composition for Native Speakers](#)

[CSPN 702 Communication in Business Spanish](#)

[CSPN 704 Latin American Culture I](#)

[CSPN 705 The Boom in Latin American Literature](#)

[CSPN 707 Spanish-English Translation](#)

[CSPN 708 Contemporary Spanish Fiction](#)

[CSPN 710 History of the Spanish Language](#)

[CSPN 804 Latin American Culture II](#)

[CSPN 810 Cultural Context of Writing](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonials

+

Certificate Requirements

—

- 5 required courses*
- 1 elective
- Cumulative grade point average (GPA) 1.67+

*You may be exempted from completing the required courses if you completed 4 courses at a higher level than CSPN 401. If granted advanced placement (through the placement and assessment interview with the academic coordinator), you only need to complete 4 advanced level courses (CSPN 402 or higher) to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Recommended:

- Successful completion of Introductory Spanish I ([CSPN 101](#))
 - With a minimum grade of C+

OR

- Admission by placement assessment and interview

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Contact Us +

Project Management for Technical Professionals

Certificate



This certificate program will prepare professionals with technical backgrounds to become employed in middle-level management (MLM) positions in the field of project management.

It is aimed at engineers, information technology professionals, scientists, environmentalists, and other technical professionals.

The program focuses on the skills, knowledge, and tools you'll require to be a successful project manager.

What Will You Learn? +

Who Should Take This Certificate? +

Industry and Careers +

Certificate Requirements -

- 1 required course
- 5 electives*
- Cumulative grade point average (GPA) of 1.67+

*Select 3 courses from Electives – Group A and 2 courses from Electives – Group B

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Required Course -

[CTEC 210 Fundamentals of Project Management](#)

Electives – Group A (select 3) -

[CKPM 123 Strategic Project Mgt \(Tech Prof\)](#)

[CKPM 203 Planning and Scheduling](#)

[CKPM 211 Leadership in Project Management](#)

[CKPM 212 Project Cost and Procurement Management](#)

[CKPM 216 Project Management Internship](#)

[CKPM 217 Agile Project Management](#)

[CKPM 220 Rescuing Failing Projects](#)

[CKPM 456 Enterprise Project Mgt \(Tech Prof\)](#)

Electives – Group B (select 2) -

[CCMN 114 Short Management Reports](#)

[CCMN 432 Communication in the Engineering Professions](#)

Next Offered: Spring/Summer 2020

[CDCE 400 Exploring Leadership Skills](#)

[CKSS 210 Lean Six Sigma Contin Improvement](#)

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

[CMHR 405 Organizational Behaviour](#)

Required:

Internationally Educated Professionals

- An undergraduate degree and a minimum of two years of professional experience in a related field
- Be an accepted and registered participant in the Gateway for International Professionals' [Middle-level Managers \(MLM\) with Technical Background Bridging Program](#)
- Be a legal resident of Ontario at the time of application, and be eligible to work in Canada
- Have resided in Canada for no more than 10 years
- Be an internationally educated professional in a suitable technical discipline
- Demonstrate English language proficiency through any of Ryerson University's approved English language proficiency test scores

OR

All Other Applicants*

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

*If you do not have these requirements, you will be considered on an individual basis, taking into account your work-related experience and maturity.

Admission Application

An admission application is required for this program. A pre-approval process will be conducted by the program manager, including an orientation/information session, a one-on-one interview, and a language assessment.

For more information, contact mlm@ryerson.ca or 416-979-5000, ext. 2713.

Awards and Financial Aid

+

Contact Us

+

Project Management

Certificate

5 Tips for Managing Projects: Dr. John A. Estrella



Focus on the skills, knowledge, and tools you'll require to be a successful project manager. This unique program also allows you to acquire an industry-specific certificate specialization. Our goal is to give you both a broad review of project management and an industry focus – and not just what is required to pass the PMP exam.

Learn directly from subject matter experts and professionals who work in the field. Our campus is conveniently located in downtown Toronto. Alternatively, you can take most of our required courses online.

According to PayScale (2019), the average annual salary for someone with an MBA is \$81K. In contrast, the Project Management Institute's (PMI)® Salary Survey (2017) listed the median annual salary for project managers in Canada at \$97K. Given the time and financial commitments of pursuing an MBA, earning your Certificate in Project Management offers a myriad of rewarding possibilities.

The Chang School has been a Project Management Institute (PMI) Registered Education Provider (REP) since 2001. In 2007, we received the PMI Professional Development Provider of the Year Award – Academic Category. This certificate was developed in cooperation with the PMI Toronto Chapter.

You can use our project management courses to meet PMI's educational requirements (also known as PDUs or Professional Development Units) and prepare for the Certified Associate in Project Management (CAPM)® and Project Management Professional (PMP)® certifications.

You can start the process any time and start your first course during the Fall (September to December), Winter (January to April), or Spring/Summer (May to August) terms. Classes are available during the evenings, on weekends, and online. It is possible to finish the entire certificate online, depending on your choice of courses.

PMI, CAPM, and PMP are registered marks of the Project Management Institute, Inc.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Introductory Course (select 1)

If you plan to pursue the ITM degree, you should take CITM 750 (as CTEC 210 cannot be used towards the ITM degree).

[CITM 750 IS Project Management](#)

[CTEC 210 Fundamentals of Project Management](#)

Required Core Courses

[CKPM 203 Planning and Scheduling](#)

[CKPM 209 Project Risk and Quality Management](#)

[CKPM 211 Leadership in Project Management](#)

[CKPM 212 Project Cost and Procurement Management](#)

Project Management Stream (select 3)

Complete 3 the following courses to achieve the Project Management Stream.

[CCMN 114 Short Management Reports](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 308 Project Management - Long Term Care](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CKPM 217 Agile Project Management](#)

[CMHR 405 Organizational Behaviour](#)

Architecture, Engineering,

You may also choose to complete the certificate program through a condensed schedule or fast track option. See *Condensed Scheduling Options* below for more details.

Professional Designations and Accreditation +

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Condensed Scheduling Options +

Industry and Careers +

Certificate Requirements -

- 5 required courses
- selected stream*
- 1 39-hour elective†
 - 2 19.5-hour courses are considered equivalent to 1 39-hour course
- Cumulative grade point average (GPA) of 1.67+

*This certificate offers streams in Project Management; Architecture, Engineering, and Construction; Business and Information Management; and Community and Health Services Management. You must fulfil the requirements of one of these four areas as listed.

†The elective category only applies to the Architecture, Engineering, and Construction; Business and Information Management; and Community and Health Services Management streams. If you are in the Project Management Stream, you do not need to complete this category.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria -

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With six Grade 12 U or M credits

OR

- Mature student status with relevant professional experience

Professional Development +

and Construction Stream

Complete the following courses to achieve the Architecture, Engineering, and Construction Stream. In addition to the courses below, select 1 course from the Elective category.

[CKPM 213 Management of Projects in the AEC](#)

[CKPM 214 Project Development and Control](#)

Business and Information Management Stream -

Complete the following courses to achieve the Business and Information Management Stream. In addition to the courses below, select 1 course from the Elective category.

[CITM 305 Systems Analysis and Design](#)

[CITM 410 Business Process Design](#)

Community and Health Services Management Stream (select 2) -

Complete 2 of the following courses to achieve the Community and Health Services Management Stream. In addition to the courses below, select 1 course from the Elective category.

[CHSM 301 The Healthcare Systems](#)

[CHSM 305 The Management Cycle](#)

[CHSM 307 Principles of Long Term Care Service Del.](#)

Electives: 39-Hour Courses (select 1) -

This category only applies to the Architecture, Engineering, and Construction; Business and Information Management; and Community and Health Services Management streams. If you are in the Project Management Stream, you do not need to complete this category. 2 19.5-hour courses may

Awards and Financial Aid	+	be completed as the equivalent of 1 39-hour course.
Testimonials	+	<u>CCMN 114 Short Management Reports</u>
Frequently Asked Questions	+	<u>CDCE 305 Intro to Intercultural Communication</u>
Contact Us	+	<u>CDCE 306 Managing Workplace Relationships</u> <u>CDCE 307 Wking with Culturally Diverse Clients</u> <u>CDCE 308 Cross Cultural Teamwork</u> <u>CHSM 306 Management Leadership and Decision-Making</u> <u>CHSM 308 Project Management - Long Term Care</u> <u>CINT 905 Conflict Resolution in Community Services</u> Next Offered:Spring/Summer 2020 <u>CKPM 216 Project Management Internship</u> <u>CKPM 217 Agile Project Management</u> <u>CKPM 218 Enterprise Project Management</u> <u>CKPM 219 Mobile Project Management</u> <u>CKPM 220 Rescuing Failing Projects</u> <u>CKPM 221 From Technical to Managerial</u> <u>CKSS 210 Lean Six Sigma Contin Improvement</u> <u>CKSS 211 Lean Six Sigma Sust Bus Enterprise</u> <u>CMHR 405 Organizational Behaviour</u>
		Electives: 19.5-Hour Courses
		This category only applies to the Architecture, Engineering, and Construction; Business and Information Management; and Community and Health Services Management streams. If you are in the Project Management Stream, you do not need to complete this category. 2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.
		<u>CKPP 110 Overview of Program Management</u>

Psychology

Certificate



Study human behaviour in a wide variety of settings. Explore why we think, feel, and act the way we do.

Familiarize yourself with the methods, concepts, theories, and applications of psychology.

Through your choice of electives, you can concentrate on:

- psychological principles of growth and development
- abnormal aspects of human behaviour
- explanations of personality and its development
- the study of social behaviour
- applications of psychology in organizations

This is an **Open Admissions** program, which means you do not need to apply before enrolling in courses. It is comprised of degree-credit courses that you may potentially transfer towards an undergraduate degree program.

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 4 required courses
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and

Required Courses

—

You may only select one of CPSY 102 or CPSY 105.

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2020

[CPSY 105 Perspectives in Psychology](#)

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2020

[CPSY 411 Research Methods and Statistics I](#)

[CPSY 612 Independent Study](#)

Electives (select 4)

—

[CPSY 214 Psychopharmacology](#)

[CPSY 215 Psychology of Addictions](#)

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2020

[CPSY 302 Child Development](#)

[CPSY 304 Psychology of Gender](#)

[CPSY 308 Psychology of Thinking](#)

[CPSY 324 Biological Psychology](#)

Next Offered: Spring/Summer 2020

[CPSY 325 Psychological Disorders](#)

[CPSY 335 Clinical Psychology](#)

Next Offered: Spring/Summer 2020

[CPSY 402 Adult Development](#)

[CPSY 412 Human Brain Circuitry](#)

[CPSY 504 Social Psychology](#)

[CPSY 505 Personality Theory](#)

[CPSY 518 Environmental Psychology](#)

[CPSY 602 Developmental Psychopathology](#)

[CPSY 606 Abnormal Psychology](#)

Next Offered: Spring/Summer 2020

courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- 3 years of professional experience in business, community service, or industry

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Recommended Course Sequence

Awards and Financial Aid

Contact Us

[CPSY 607 Drugs and Human Behaviour](#)

[CPSY 614 Psychology of Sport](#)

[CPSY 620 Psychology of Immigration](#)

[CPSY 621 Psychology of Human Sexuality](#)

Next Offered: Spring/Summer 2020

[CPSY 706 Personal Growth and Positive Psychology](#)

[CPSY 707 Models of Stress and Adaptation](#)

[CPSY 802 Death, Dying and Bereavement](#)

[CPSY 805 Adjustment, Stress and Coping](#)

[CPSY 806 Behaviour Modification](#)

[CPSY 807 Psychology of Prejudice](#)

[CPSY 808 Community Psychology](#)

[CPSY 941 Cross Cultural Psychology](#)

Public Administration and Governance

Certificate



Learn about public sector organizations, structures, decision processes, and operations. Develop an awareness of the political forces that shape public administration and policy, and learn about the levels of government in Canada.

Gain the specialized knowledge and skills you need to advance your career in the public sector.

This program is designed for:

- those preparing for jobs or career advancement in:
 - federal, provincial, or municipal government
 - social service agencies
 - public or non-profit organizations
- managers
- administrative officers
- front-line service providers
- policy analysts

By completing this program, you will fulfill Level I of [Ryerson's BA \(Honours\) in Public Administration and Governance](#).

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Testimonials +

Certificate Requirements -

- 3 required courses

Required Courses -

[CPPA 101 Cdn Public Administration I: Institutions](#)

[CPPA 102 Cdn Public Administration II: Processes](#)

Next Offered: Spring/Summer 2020

[CPPA 125 Rights, Equity and the State](#)

Required Group 1 (select 2) -

[CPPA 120 Canadian Politics and Government](#)

[CPPA 121 Ontario Politics and Government](#)

[CPPA 122 Local Politics and Government](#)

[CPPA 124 Indigenous Politics and Governance](#)

Liberal Studies Elective Table A (select 1 1-term lower-level course) -

Liberal Studies courses are indicated by "LL" for Lower Level and "UL" for Upper Level. Consult the [Undergraduate Calendar](#) for the complete list of Liberal Studies courses. Once you have chosen your course, return to [The Chang School website](#) to search for its availability.

[CGEN LLS One one-term Lower Level Liberal Studies Elective from Table A](#)

Professionally-Related Elective Table I (select 2 1-term courses from Table I) -

Consult the [Undergraduate Calendar](#), Professionally-Related Electives Table I for a complete list

- 2 courses from Required Group 1
- 1 lower-level Liberal Studies Elective from Table A
- 2 Professionally-Related Electives from Table I
- Cumulative grade point average (GPA) of 1.67+

Note: If you wish to obtain your Certificate in Public Administration and Governance, you must apply through the Office of Undergraduate Admissions for admission to the Public Administration and Governance BA (Honours) program. Do not use the standard continuing education certificate application. Upon completing this certificate and the Advanced Certificate in Public Administration and Governance, you may continue your studies to earn a [BA \(Honours\) in Public Administration and Governance](#)  from Ryerson University.

of appropriate courses. Once you have chosen your course, return to [The Chang School website](#) to search for its availability.

CGEN PRE Two One-Term Professionally-Related Electives from Table I

Admission Criteria —

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits (ENG4U/EAE4U is the preferred English)
 - With a minimum grade of 60 percent (Subject to competition, candidates may be required to present averages/grades above the minimum.)

OR

- Mature student status

Awards and Financial Aid +


Contact Us +

Public Administration and Leadership

Certificate



Deepen your understanding of the key aspects of public sector management and leadership.

Governments need employees who know how societies and economies work and who care about delivering quality service and advice. They are also seeking people who are potential leaders and who will guide colleagues by their example and expertise. To meet this demand, The Chang School and Ryerson University's [Department of Politics and Public Administration](#)  have developed this certificate for individuals who already have a degree from a recognized university.

Focus on key areas of:

- policy development
- public sector finance
- collaborative governance
- intergovernmental affairs
- program evaluation
- e-government
- administrative law
- the nature and style of leadership in the public sector

Required Courses

[CPPA 211 Public Policy](#)

[CPPA 404 Issues in Public Administration](#)

[CPPA 501 Public Sector Leadership](#)

Electives (select 3)

[CPPA 301 Administrative Law](#)

[CPPA 303 Financial Management](#)

[CPPA 335 Theories of Bureaucracy](#)

[CPPA 401 Collaborative Governance](#)

[CPPA 402 Program Planning and Evaluation](#)

[CPPA 403 e-Government](#)

[CPPA 414 Comparative Public Policy](#)

[CPPA 425 Intergovernmental Relations](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

-

- 3 required courses
- 3 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria —

Required:

- An undergraduate degree

Note: If you have no background in politics or public administration and/or no experience in the public sector, you may be required to complete a preparatory course (usually either [CPPA 102](#) or [CPPA 120](#)) prior to admission in the certificate.

Admission Application

To apply for approval to register in the Certificate in Public Administration and Leadership, please complete and submit this online [program pre-approval form](#) [↗](#). Once you have completed and submitted this online form, a representative from The Chang School will contact you to provide next steps.

Note: You will also be required to submit academic transcripts to Dr. Patrice Dutil, Academic Coordinator. Instructions for submitting your transcripts are in the Education section of the pre-approval form.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid +

Contact Us +

Public Relations

Certificate

The Chang School Certificate in Public Relations



If a challenging career consulting with professional businesses, community organizations, or government agencies sounds appealing, then public relations may be for you.

As a public relations practitioner, you will work with a variety of leaders and other professionals to:

- protect organizational reputation
- manage issues and crises
- conduct media relations
- develop internal and external communication programs
- develop and manage communication budgets
- write supporting communication materials such as plans, reports, news releases, business presentations, newsletters, website content, and much more

Recognized by the International Association of Business Communicators (IABC), the Certificate in Public Relations provides a curriculum that will hone your practical, analytical, and theoretical skills to prepare you for a career in public relations.

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Take Ryerson degree-credit courses**
- **Prepare for recognition by leading professional associations**
- **Finish your certificate faster through our intensive schedule option**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Certificate in Public Relations**? Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses

[CDPR 100 Public Relations Principles](#)

[CDPR 104 Planning Programming and Budgeting](#)

[CDPR 105 Research and Program Evaluation](#)

[CDPR 107 Public Relations Project](#)

[CDPR 111 Writing for Public Relations](#)

Electives: 39-Hour Courses

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDPR 106 Media Relations](#)

[CDPR 108 Social Media in Public Relations](#)

[CDPR 113 Internal Communications Management](#)

Electives: 19.5-Hour Courses

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDPR 103 Advanced PR Writing](#)

Next Offered: Spring/Summer 2020

[CDPR 110 Reputation Management](#)

Next Offered: Spring/Summer 2020

[CDPR 116 Public Relations Ethics](#)

[CDPR 117 Crisis Communication](#)

What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Intensive Option +

Certificate Requirements -

- Five required courses
- Three 39-hour electives
 - Two 19.5-hour courses are considered equivalent to one 39-hour course
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria -

Recommended:

- An undergraduate degree

OR

- A 3-year community college diploma

OR

- Mature student status with a high school diploma and 4 years of progressive work experience in public relations practice, or in a business, professional, or technical field

Professional Development +

Awards and Financial Aid +

Contact Us +

Publishing

Certificate

Celebrating 30 years of professional training for the publishing industry

Founded in 1990, the Certificate in Publishing is the largest and most successful professional training program for the publishing industry in Canada. Our graduates thrive in book publishing and related industries, and in corporate, non-profit, and government communications.

Take a full range of courses covering the latest in print and digital publishing, including overviews of industry sectors and skills-based training in:

- editing
- production and design
- sales, marketing, and publicity
- literary rights and the business of book publishing
- digital publishing

This certificate program can be completed in the classroom, entirely online, or through a combination of the two, depending on your needs. You can also take six of the eight credits required to complete the certificate in just three months through our [Publishing Intensive](#).

This program offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Get real industry experience through internship, practicum, or project-based opportunities**
- **Finish your certificate faster through our intensive schedule option**
- **Apply for merit-based awards**

Have questions? Contact Kelvin Kong and Meg Taylor, Academic Coordinators, at publish@ryerson.ca.

Want to find out more or ask a question about the **Certificate in Publishing?** Connect with this program by email.

[Email us](#) 

Required Courses

[CDPB 100 Publishing Overview: Trade](#)

[CDPB 200 Publishing Overview: Education](#)

Electives: 39-Hour Courses (select 6)

2 19.5-hour courses may be completed as the equivalent of 1 39-hour course.

[CDPB 101 The Business of Book Publishing](#)

[CDPB 102 Copy and Stylistic Editing I](#)

[CDPB 103 Production for Books, Journals, and Reports](#)

[CDPB 104 Introduction to Book Design](#)

[CDPB 105 Sales and Marketing for Book Publishers](#)

[CDPB 110 Publicity for Book Publishers](#)

[CDPB 201 Literary Rights Management](#)

[CDPB 202 Substantive and Stylistic Editing](#)

[CDPB 212 Visual Skills for Publishing](#)

[CDPB 222 Copy and Stylistic Editing II](#)

[CDPB 312 Practical Grammar and Punctuation](#)

[CDPB 803 Digital Publishing and Production](#)

Electives: 19.5-Hour Courses

2 19.5-hour courses may be completed as the equivalent of 1

What Will You Learn?

+

Who Should Take This Certificate?

+

Course Series in Children's Publishing

+

Who Teaches the Courses?

+

Academic Coordinators

+

Industry and Careers	+	39-hour course.
Certificate Requirements	-	<p data-bbox="1430 154 1875 225">CDPB 300 Children's Classics in the 21st C</p> <p data-bbox="1430 255 1896 284">CDPB 301 Publishing for Children</p> <p data-bbox="1430 314 1875 344">CDPB 302 Government Reports</p> <p data-bbox="1430 373 1770 445">CDPB 304 Scholarly and Reference Publishing</p> <p data-bbox="1430 474 1864 504">CDPB 306 Trade Books: Fiction</p> <p data-bbox="1430 534 1822 605">CDPB 309 Editing Books for Children and Teens</p> <p data-bbox="1430 635 1839 706">CDPB 310 Proofreading for Books, Journals, and Reports</p> <p data-bbox="1430 736 1839 807">CDPB 311 Indexing for Books, Journals, and Reports</p>
<ul style="list-style-type: none"> • Two required courses • Six 39-hour electives <ul style="list-style-type: none"> ◦ Two 19.5-hour courses are considered equivalent to 1 39-hour course • Cumulative grade point average (GPA) of 1.67+ 		
<p>To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our Glossary of Terms. If certificate requirements change and courses are no longer available, you may request Course Substitutions/Directives. You must apply to graduate on my.ryerson (RAMSS) within the appropriate application deadlines (refer to Important Dates). Visit Graduation for details.</p>		
Recommended Course Sequence	+	CDPB 313 Mktg Books for Children and Teens
Course Delivery Schedule	+	CDPB 314 Legal Publishing Next Offered:Spring/Summer 2020
Admission Criteria	-	CDPB 315 Editing Recipes and Cookbooks
Recommended:		
<ul style="list-style-type: none"> • Undergraduate degree 		
OR		
<ul style="list-style-type: none"> • Mature student status with related professional experience and education 		
<p>If you are an undergraduate student in your final year, please contact the academic coordinators at publish@ryerson.ca.</p>		
Meet Our Recent Graduates	+	
Frequently Asked Questions	+	
Intensive Option	+	
Why Register for the Certificate?	+	
Awards and Financial Aid	+	
Internships	+	
Contact Us	+	

Retail Management

Certificate

Hot Careers Spotlight: Retail Management



Kick-start or advance your career in retail – the largest employment sector in Canada.

Operating a successful retail business is becoming a greater challenge than ever before. As a retail professional, you must apply your skills and knowledge to analyze changing demographics, build relationships with customers as well as suppliers, and oversee the integration of a global supply chain, in addition to identifying new trends.

Our Certificate in Retail Management is tailored to the unique and growing needs of the retail industry, including strategic thinking, advanced communication skills, organizational development, and market planning.

The Certificate in Retail Management:

- can be completed online
- is eligible for OSAP
- offers students the opportunity to apply courses from the certificate as transfer credits upon acceptance to the Bachelor of Commerce degree program at the Ted Rogers School of Retail Management

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

[CRMG 200 Intro to Retail and Services Management](#)

[CRMG 302 Retail Consumer Insight](#)

Electives (select 4)

[CENT 500 New Venture Startup](#)

[CGMS 200 Introduction to Global Management](#)

[CMHR 405 Organizational Behaviour](#)

[CMHR 523 Human Resources Management](#)

[CMKT 100 Principles of Marketing](#)

[CQMS 102 Business Statistics I](#)

[CRMG 301 Retail Operations Management](#)

[CRMG 303 Service Quality Management](#)

[CRMG 400 Buying Process I](#)

[CRMG 434 Intro to Logistics and Supply Chain Mgmt](#)

[CRMG 452 Visual Merchandising and Space Planning](#)

[CRMG 806 Retailer Perspectives on Category Management](#)

[CRMG 902 Franchising](#)

[CRMG 907 Relationship Marketing](#)

[CRMG 909 Advanced Buying Process II](#)

[CRMG 910 Omni-Channel Retailing](#)

[CRMG 911 Retail Sales Management](#)

[CRMG 916 Managing B2B Channels](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Course Sequence	+	CRMG 919 Visualizing Data for Decisions
Testimonials	+	
Certificate Requirements	—	
<ul style="list-style-type: none"> • 2 required courses* • 4 electives • Cumulative grade point average (GPA) of 1.67+ <p>*If you demonstrate the requisite combination of education and work experience, you may apply to the academic coordinator to waive CRMG 200. If granted a waiver, you will need to complete 5 electives (instead of 4) to fulfill the certificate requirements.</p> <p>To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our Glossary of Terms. If certificate requirements change and courses are no longer available, you may request Course Substitutions/Directives. You must apply to graduate on my.ryerson (RAMSS) within the appropriate application deadlines (refer to Important Dates). Visit Graduation for details.</p>		
Admission Criteria	—	
<p>Recommended:</p> <ul style="list-style-type: none"> • Ontario Secondary School Diploma (OSSD) or equivalent <ul style="list-style-type: none"> ◦ With 6 Grade 12 U or M credits <p>AND one of the following:</p> <ul style="list-style-type: none"> • Mature student status • A recent undergraduate degree or college diploma • A minimum of 1 year related professional experience in the retail industry <p>If you are an undergraduate student, you should be aware of possible certificate restrictions. Check Curriculum Advising ↗ for complete details.</p>		
Professional Development	+	
Awards and Financial Aid	+	
Contact Us	+	

Robotics and Embedded Systems

Certificate

Real World Expertise - Robotics and Embedded Systems



Learn to build mobile robotic devices and program embedded systems for product and automated device development.

Gain skills in microprocessor-based control systems, systems-on-chip (SoC) design, and device software development.

Build as you learn, producing robotic devices with embedded systems throughout the duration of the program.

This is an **Open Admissions** program, which means you can enrol in courses right away.

Advance or change your career while developing the technical knowledge and skills to provide hands-on innovation through robotics and embedded systems products and devices, as automation expands across the private and public sectors.

This certificate program can be completed entirely online.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Courses

[CKRE 110 Digital Logic and Hardware Architecture](#)

[CKRE 120 Programming Robotics Systems](#)

[CKRE 130 Embedded Systems Hardware Architecture and Implementation](#)

[CKRE 140 Real-Time Embedded Systems Programming](#)

[CKRE 150 Emerging Issues in Robotics and Embedded Systems](#)

[CSCI 130 Mobile Robotic Devices Embedded Systems](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Testimonial

+

Certificate Requirements

-

- 6 required courses
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence **+**

Admission Criteria **-**

Recommended:

- Mature student status with evidence of relevant college or university level coursework, or equivalent

OR

- Mature student status relevant industrial or professional experience in business

Awards and Financial Aid **+**

Fast Track Option **+**

Frequently Asked Questions **+**

Contact Us **+**

Social Sciences and Humanities Foundations

Certificate



Develop university-level skills, such as critical thinking, problem-solving, research, and writing with this flexible certificate. Choose social sciences and humanities courses that interest you and will best support your academic goals.

With this foundational certificate, you can strengthen your application for full-time undergraduate degrees. Successfully completed courses may be considered as transfer credits to college and university degree programs, subject to admission and transfer credit requirements.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 2 required courses: [CSSH 105](#) and [CSSH 205](#)
- 4 electives: 2 in Group A - Humanities and 2 in Group B - Social Sciences*
- Cumulative grade point average (GPA) of 1.67+

*You may select a French (CFRE) and/or a Spanish (CSPN) course as part of the Electives - Humanities category. However, an online placement test is required; visit the [Department's website](#) [↗](#) for details.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and

Required Courses -

[CSSH 105 Critical Thinking I](#)

Next Offered: Spring/Summer 2020

[CSSH 205 Academic Writing and Research](#)

Electives – Group A: Humanities (select 2) -

You may select a French (CFRE) and/or a Spanish (CSPN) course as part of this category. However, an online placement test is required; visit the [Department's website](#) for details.

[CACS 100 Ideas That Shape the World I](#)

[CACS 210 Ideas that Shape the World: Antiquity](#)

[CENG 110 Literatures Across Borders](#)

[CENG 208 Introduction to Non-Fiction](#)

[CHIS 104 Ten Days That Shook The World](#)

[CHIS 105 Inventing Popular Culture](#)

[CHIS 106 Technology, Warfare and Social Change](#)

[CHIS 107 Colonization, Colonialism and Independence](#)

[CLIR 100 Global Models in Intercultural Relations](#)

[CPHL 101 Plato and the Roots of Western Philosophy](#)

[CPHL 201 Problems in Philosophy](#)

[CPHL 333 Philosophy of Human Nature](#)

[CPHL 366 Existentialism and Art and Culture](#)

courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

Admission Criteria

Recommended:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status

Note: If you do not meet the above stated admission criteria, you must complete [CENG 110](#) (from Electives - Group A: Humanities) as one of your four electives.

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Awards and Financial Aid

Contact Us

Electives – Group B: Social Sciences (select 2)

[CCRM 100 Introduction to Canadian Criminal Justice](#)

[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2020

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2020

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2020

[CEUS 102 Environment and Sustainability](#)

[CEUS 202 Sustaining the City's Environments](#)

[CGEO 131 Energy, Earth and Ecosystems](#)

[CGEO 151 Location, Location, Location](#)

[CPOG 100 People, Power and Politics](#)

[CPOG 110 Power and Influence in Canadian Politics](#)

[CPPA 101 Cdn Public Administration I: Institutions](#)

[CPPA 102 Cdn Public Administration II: Processes](#)

Next Offered: Spring/Summer 2020

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2020

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2020

[CSOC 105 Introduction to Sociology](#)

[CSOC 107 Sociology of the Everyday](#)

[CSSH 100 Inquiry and Problem-Solving](#)

[CSSH 102 Learning and Development Strategies](#)

[CSSH 301 Research Design and Qualitative Methods](#)

Strategic Marketing

Certificate

Achievers at The Chang School - Strategic Marketing



Building a career in marketing is an exciting journey!

The marketing industry covers a wide range of functions including both technical elements – such as market research and database mining – and the more creative aspects of product development, brand management, promotion, public relations, direct marketing, and sponsorship.

Today's marketing jobs are more competitive than ever, demanding a level of creativity, strategic thinking, and analytical skills that keep pace with the rapid pace of this changing industry. Technology has provided new and more effective ways to identify, target, and interact with consumers. At the same time, societal trends demand that more attention be paid to corporate social responsibility, social marketing, and sustainability.

Our unique Certificate in Strategic Marketing helps you understand the latest technologies and advancements in marketing through hands-on, practical learning. Our program offers both academic rigour and customization – you choose the stream that best suits your needs. Choose our General stream to build a range of fundamental marketing skills, or focus on a particular area of interest by taking electives from our specialized streams: Marketing Innovation, Marketing Research, Social Media, and Sports Marketing.

The Certificate in Strategic Management:

- can be completed online or in class
- is eligible for OSAP
- comprises university-level degree credit courses
- offers students the opportunity to apply all or most of the courses from the certificate as transfer credits upon acceptance to the Bachelor of Commerce degree program at the Ted Rogers School of Management

Required Courses

[CMKT 100 Principles of Marketing](#)

[CMKT 300 Marketing Metrics and Analysis](#)

Electives (select 4 or 5)

[CGMS 522 International Marketing](#)

[CITM 350 Concepts of e-Business](#)

[CMKT 400 Understanding Consumers and the New Media](#)

[CMKT 500 Marketing Research](#)

[CMKT 504 Effective Persuasion](#)

[CMKT 510 Innovations in Marketing](#)

[CMKT 600 Integrated Case Analysis](#)

[CMKT 700 Business Intelligence/Decision Modeling](#)

[CMKT 702 Advanced Marketing Management](#)

[CMKT 723 Services Marketing](#)

[CMKT 730 Assessing/Managing Market Opportunities](#)

[CMKT 731 Competitive Intelligence](#)

[CMKT 828 Sport Marketing Concepts and Strategy](#)

[CMKT 829 International Sport Marketing](#)

[CMKT 850 Applied Research Project](#)

What Will You Learn?



Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

- 2 required courses*
- 4 electives
- Cumulative grade point average (GPA) of 1.67+

*If you demonstrate the requisite combination of education and work experience, you may apply to the academic coordinator to waive CMKT 100. If granted a waiver, you will need to complete 5 electives (instead of 4) to fulfill the certificate requirements.

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.rverson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence +

Admission Criteria -

Required:

- Ontario Secondary School Diploma (OSSD) or equivalent
 - With 6 Grade 12 U or M credits

OR

- Mature student status with relevant professional experience in business

If you are an undergraduate student, you should be aware of possible certificate restrictions. Check [Curriculum Advising](#) [↗](#) for complete details.

Professional Development +

Awards and Financial Aid +

Frequently Asked Questions +

Testimonials +

Contact Us +

Sustainability Management and Enterprise Process Excellence

Certificate



Become a leader to enhance sustainability best practices at your organization. Respond to new opportunities in sustainable development. Maximize your impact by deploying and executing sustainability principles and using Lean Six Sigma continuous improvement tools and techniques.

Learn how to:

- promote sustainability and sustainable development
- prioritize, deploy, and implement best practices with proven techniques
- execute vital strategic plans with SMART goals
- address the complex global sustainability related challenges
- gain long-term value for your corporation by incorporating ESG (Environmental, Social, and Governance) criteria into your investment decision
- engage stakeholders and build trust through open, transparent, and reliable outreach, communications, and engagement
- become a corporate social responsibility (CSR) advocate and sustainability professional

Generate personal, organizational, and social transformation that results in:

- reduced waste and carbon footprint
- eco-efficiency
- innovation-driven business models, capturing value across business units and products
- engaged communities
- sustainable investment
- competitive advantage in global markets (increase sales and top line growth)
- improved transactional capabilities and reduced costs through more efficient process (reduce cost and bottom line growth)

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses

[CKSS 100 Fundamentals in Sustainability I](#)

[CKSS 101 Fundamentals in Sustainability II](#)

[CKSS 210 Lean Six Sigma Contin Improvement](#)

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

Electives (select 2)

[CECN 502 Economics of Energy and Natural Resources](#)

[CECN 510 Environmental Economics](#)

[CFNY 404 Food Policy and Programs for Food Security](#)

[CFNY 407 Community Development and Food Security](#)

[CHTT 510 Sustainable Tourism: the Golden Goose?](#)

[CKAR 500 Sustainable Buildings](#)

[CKAR 601 Building Science for Architectural Preservation and Conservation](#)

[CKES 160 Waste Management](#)

[CKES 180 Site Assessment](#)

[CKES 190 Renewable Energy and Green Technology](#)

[CKES 210 Applied Environmental Analysis](#)

[CKES 220 Environmental Law and Practice](#)

[CKLA 400 Ecology and Sustainable Landscapes](#)

[CKLA 450 Landscape Restoration](#)

[CKSS 102 Designing a Sust-Enterprise](#)

Approach decision-making, planning, and action by integrating the economic, social, and environmental components that comprise the triple bottom line (TBL or 3BL) of sustainability.

[CKSS 201 Sustainability Topics and Trends](#)

[CKSS 212 Lean Six Sigma Quality Assurance](#)

[CTEC 210 Fundamentals of Project Management](#)

[CTEC 241 Energy Innovation](#)

[CTEC 264 Trends in Smart Grid](#)

[CTEC 269 Trends in Energy Conservation](#)

[CTEC 282 Public Policy in Energy](#)

[CVFN 410 Understanding Urban Agriculture](#)

[CVFN 411 Dimensions of Urban Agriculture](#)

[CVFN 412 Urban Agriculture Types](#)

[CVFN 413 Urban Agriculture Policy-Making](#)

[CZMN 200 CSR Citizenship and Sustainability](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- 4 required course
- 2 electives
- Cumulative grade point average (GPA) of 1.67+

To graduate, you must successfully complete, within your official time span, the requirements from the year you registered in the program. For more information, refer to Time Span in our [Glossary of Terms](#). If certificate requirements change and courses are no longer available, you may request [Course Substitutions/Directives](#). You must apply to graduate on [my.ryerson](#) (RAMSS) within the appropriate application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Recommended Course Sequence

+

Admission Criteria

—

Recommended:

- An undergraduate degree in a relevant field with a GPA of 2.0, or equivalent

OR

- A post-secondary diploma with a GPA of 2.0, or equivalent, AND 3 years of full-time relevant employment, subject to the approval of the academic coordinator

OR

- Mature student status with 4 years of full-time relevant employment, subject to the approval of the academic coordinator

Transfer Credits

Up to 3 transfer credits may be granted for previous studies similar to the courses listed in the elective streams. If an appropriate equivalency is established, a specific credit will be granted; however, a generic transfer credit (CKSS GEN) will be considered if a direct course equivalency cannot be established, but the course falls within one of the four elective streams of the certificate.

The primary requirements for a course to be considered for the CKSS GEN credit is as follows:

It must connect to and/or fall within one of the General, Architecture and Landscape Design, Environmental Management, or Socioeconomics of Sustainability Forces and Progress elective streams

OR

It must cover, in varying degrees, all of the social, economic, and environmental dimensions of sustainability/sustainable development

Testimonial **+**

Fast Track Option **+**


Professional Development **+**

Awards and Financial Aid **+**

Contact Us **+**

Course Series

Earn a Professional Development Award or Academic Achievement Award by taking just 2–4 courses. A course series is a grouping of courses in a defined area that you can use to boost your knowledge or skills.

Once you have successfully completed the courses, please submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

3-D Printing, Visualization, and Agile Product Prototyping

Advanced Make-Up Artistry and Special Effects

American Sign Language (ASL)

Applied Analytics and Statistics for 21st Century Decision-Making

Architectural Preservation

Architectural Technologists Professional Career Foundations

Arts and Entertainment Administration

CATIA Engineering Design

Cannabis Essentials

Caring Clown

Children’s Publishing

Coding, Programming, and Algorithms: Computer Science Fundamentals

Computer Applications

Computer Programming for Game Developers

Conservation and Renewal of Urban Buildings

Costume Specialties

Creative Photography

Creative Writing

Drone/UAV Ground School

Early Childhood Mental Health and Well-Being

EarlyON Child and Family Centres

Entrepreneurship and Small Business

Environmental Sciences

Family Supports and Community Engagement

Film Production Techniques Using Mobile Devices

Financial Predictive Data Analytics

Fine Art Practice

Gender and Sexuality

Hadoop, Python, and Tableau Big Data Tools

Health Ethics

Health Informatics

Health Services Management

Immigration and Settlement Studies

Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video

Intercultural Communication in the Canadian Workplace (ICCW)

Interdisciplinary Conflict Resolution and Team Building

Interdisciplinary Studies: Community Partnerships

Interdisciplinary Studies: Interdisciplinary Program Management

Interdisciplinary Studies: International Field Experience

Internationally Trained Medical Doctors (ITMD) Bridging Program

Introduction to Health Data Analytics

Introduction to Privacy, Access, and Information Management

Introductory Accounting

Leadership in Accessibility and Inclusion

Leading and Planning for Patient Experience

Lean Six Sigma and Sustainable Industry Enterprise

Marketing Innovation

Marketing Research

Paediatric Health Assessment

Patient Safety and Nursing Informatics

Professional Healthcare Careers Foundations

Project Management

Project and Workplace Budgets Coordination

Research Methodologies and Program Evaluation

Retail Buying

Retail Operations and Sales Management

Science, Technology, Engineering, and Mathematics (STEM)

Scientific Research Policy and Ethics

Social Media Marketing

Social Media Practices and Reputation Management

Sports Marketing

Survival in Urban Disasters and Emergencies

The Human Body

The Internet of Things (IoT)

Toy Invention

Urban Agriculture

Virtual Reality (VR) and Augmented Reality (AR) Developer for Smartphones

Website Design

Workplace Communication in Canada (WCC)

Workplace Mental Health in Healthcare Settings

iPhone and Android Applications Developer

3-D Printing, Visualization, and Agile Product Prototyping

Course Series

Learn to execute agile product design, product sculpture, and prototyping with 3-D printers. Realize your designs, animations, and product prototypes using 3-D printers.

In each course, you will prepare a 3-D model ready for optional 3-D printing at Ryerson University's 3-D Printing Lab.

This is an Open Admissions program to help you advance or change your career.

No previous background is required.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Required Courses (select 4) —

[CKCS 230 Intro to SOLIDWORKS for 3-D Printing](#)

[CKCS 231 Product 3-D Animation/Rendering](#)

[CKCS 232 3-D Printing: Agile Prototyping](#)

[CKCS 233 Product Design for 3-D Printing](#)

[CKCS 234 Product Drawing for 3-D Printing](#)

What Will You Learn? +

Who Should Enrol? +

Fast Track Option +

Industry and Careers +

Course Series Requirements —

- Successful completion of 4 required courses

Supplies to be purchased by the student:

You are required to purchase (or already own) the following software: Pixologic ZBrush and ZSpheres, Autodesk Mudbox, SOLIDWORKS, DynaMesh, and 3-D computer graphics software that saves objects in the STL (stereolithography) format. As well, you must own or have access to a laptop, tablet, tablet pen, and an external hard drive.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Recommended Sequence +

Contact Us +

Additional Details +

Advanced Make-Up Artistry and Special Effects

Course Series

The Chang School is proud to offer a comprehensive three-course series in Advanced Make-Up Artistry and Special Effects. Focusing on make-up artistry in film, TV, theatre, and photography, you'll learn the latest techniques and receive professional advice about succeeding in the business.

If you're thinking of beginning a career in make-up artistry, The Chang School is the place to start. And if you're already in the field but are looking to perfect your knowledge and skills, we've got the courses to help expand your career options.

Once you've successfully completed all three courses, you'll receive a Professional Development Award. This credential is widely recognized and respected across the make-up and entertainment communities.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Course Design +

Your Instructor +

Course Series Requirements -

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Want to find out more or ask a question about the **Course Series in Advanced Make-Up Artistry and Special Effects?** Express interest to connect with this program and receive updates.

[Express interest](#) ↗

Required Courses

[CDTH 431 Make-Up Artistry for Film Video and TV](#)

[CDTH 435 Special Effects Make-Up for Stage and Screen](#)

[CDTH 448 Introduction to Make-Up Techniques for Theatre and Film](#)

American Sign Language (ASL)

Course Series

Learn American Sign Language (ASL), the most commonly used sign language for Deaf communities in Canada, the United States, and many other countries around the world.

ASL employs a range of movements in the hands, face, and body. ASL has been used for over 250 years, and is now estimated to be used more than 500,000 people in Canada and the US.

All courses within this course series are delivered in class, allowing you to practise with your instructors and fellow students.

You will learn from a combination of lectures, in-class demonstrations, dialogues, conversations, videos, and practice using audiovisual support.

Required Courses (select 2) —

[CASL 101 Introductory American Sign Language I](#)

[CASL 201 Introductory American Sign Language II](#)

[CASL 301 Intermediate American Sign Language I](#)

[CASL 401 Intermediate American Sign Language II](#)

What Will You Learn? +

Who Should Take This Course Series? +

Course Series Requirements —

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) [↗](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Applied Analytics and Statistics for 21st Century Decision-Making

Course Series

Learn to analyze data and statistics, forecast predictions, and execute real-world, predictive analysis projects (including using SAS) to provide evidence-based decision-making.

This program offers a focused grounding in 21st century applied statistical and analytical skills in the most up-to-date techniques in statistical analysis that are sought after in today's workplace. It is open to anyone who is interested in a professional career in business, industry, government, or research.

No previous background is required.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?

+

Who Should Enrol?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Course Sequence

+

Course Series Requirements

—

The professional development award may be achieved in one of the following ways:

- Successful completion of courses in Option 1 (CIND 123, (CMTH 304 or CMTH 380), and CMTH 404)

OR

- Successful completion of courses in Option 2 (CIND 123, CQMS 102, and CQMS 202)

Note: Course selections may not be combined from both groups.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificates

+

Contact Us

+

Required Courses (Option 1)

—

The professional development award may be achieved completing courses in either this Option or Option 2.

You may only select one of CMTH 304 or CMTH 380.

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CMTH 304 Probability and Statistics I](#)

[CMTH 380 Probability and Statistics I](#)

Next Offered: Spring/Summer 2020

[CMTH 404 Probability and Statistics II](#)

Required Courses (Option 2)

—

The professional development award may be achieved completing courses in either this Option or Option 1.

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CQMS 102 Business Statistics I](#)

[CQMS 202 Business Statistics II](#)

Architectural Preservation

Course Series

This is a highly technical program consisting of courses focused on subjects related to building renovation, restoration and rehabilitation, and historical preservation and conservation. The program is designed to provide graduates with specific knowledge and skills in architectural preservation and conservation.

No previous background is required.

Learn to design and execute renovations, restorations and rehabilitations and historical preservation and conservation of buildings.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses

[CKAR 205 Building Codes and Regulations](#)

[CKAR 310 Materials and Methods](#)

[CKAR 601 Building Science for Architectural Preservation and Conservation](#)

What Will You Learn?

+

Who Should Enrol?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Sequence

+

Course Series Requirements

—

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Architectural Technologists Professional Career Foundations

Course Series

Learn the latest in Canadian best practices and standards for materials and methods, building codes, and sustainable buildings' mechanical and electrical systems.

This program offers the solid foundational educational requirements and skill sets necessary to begin preparation toward accreditation as an architectural technologist. It is intended for those aspiring to be architectural technologist professionals who are currently in high demand with employers in architectural firms, governments, and construction companies.

No previous background is required.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this four-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses

[CKAR 205 Building Codes and Regulations](#)

[CKAR 215 Computer-Aided Architectural Drawing](#)

[CKAR 310 Materials and Methods](#)

[CKAR 500 Sustainable Buildings](#)

What Will You Learn?



Who Should Enrol?



Who Teaches the Courses?



Industry and Careers



Course Series Requirements



- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Recommended Sequence



Contact Us



Arts and Entertainment Administration

Course Series

If you work in the cultural sector as an individual or as a group, Ryerson University's G. Raymond Chang School of Continuing Education can help you develop entrepreneurial skills to support your creative work through a course series in Arts and Entertainment Administration.

The course series provides learners with a blend of practical and theoretical instruction in a format that arts managers, potential arts managers, and individual artists will find suitable for their experience. The instruction addresses issues for both the for-profit and not-for-profit sectors.

Each course is taught by a seasoned professional who works in the cultural industry and who can help you develop confidence in learning to build your business.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Answers to Frequently Asked Questions



Industry Feedback



Message From the Academic Coordinator



Course Series Requirements



- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



Want to find out more or ask a question about the **Course Series in Arts and Entertainment Administration?** Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses



[CDAM 100 Making a Living in the Arts](#)

[CDAM 102 Audience Outreach and Engagement](#)

[CDAM 103 Progmmatic Mktng for Arts and Ent](#)

[CDAM 104 Social Media Mktng Arts and Ent](#)

Cannabis Essentials

Course Series



Required Courses (select 2)

[CZEN 420 The Business of Cannabis](#)

[CZLW 420 Cannabis Law for Business](#)

[CKBG 420 Trends in Cannabis Science](#)

Our unique suite of cannabis courses provides you with essential skills for success in Canada's hottest new industry!

Designed and delivered by industry experts, our three courses prepare you with the business, regulatory, and plant science fundamentals that will help you start your own business or join an expanding team. Successfully complete two of the three courses and earn a Professional Development Award.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Cannabis Courses



[CZEN 420 The Business of Cannabis](#)



A "Cool Course" in the 2019 [Maclean's Canadian Universities Guidebook](#)!

Building on Ryerson's expertise in entrepreneurship education, this course includes industry guest speakers who will discuss a range of topics, including financing for cannabis businesses and the complex regulations pertaining to the cultivation, processing, distribution, marketing, and selling of cannabis. You will also create a business plan and participate in a site tour.



[CZLW 420 Cannabis Law for Business](#)

This course provides an understanding of the cannabis industry's complex regulatory environment, which is essential for strategic business decision-making. You will interpret important legislation from a business perspective and examine how to effectively bring cannabis products (including edibles) to market by considering various issues, including marketing and advertising, intellectual property, and import/export.



CKBG 420 Trends in Cannabis Science

In this introductory course, you will learn about the interaction between humans and cannabis focusing on trends in medicinal, wellness and recreational applications of 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. You will also be introduced to the role of the physiological endocannabinoid system and learn about major cannabinoids - THC and CBD, minor cannabinoids, and terpenes.

Who Should Enrol?

+

Who Teaches the Courses?

+

Industry Advisors

+

Caring Clown

Course Series



Required Courses

[CSCC 900 Caring Clown I](#)

[CSCC 910 Caring Clown II](#)

[CSCC 911 Caring Clown Practicum](#)

Want to embark on a unique and purposeful learning experience?

Give back to your community and help improve the quality of life of long-term care residents. Explore your sense of fun and your compassionate spirit.

The Caring Clown course series combines basic clowning skills of spontaneity, playfulness, and humour with compassion and caring. Added to the mix are music and movement. No special skills are required – just a willingness to learn and be open to new challenges!

Clowns come from all walks of life. Some have been teachers, social workers, lawyers, engineers or business professionals. Most are retired, but many also work part-time. Although Caring Clowns wear red noses, their costumes and characters are reflective of eccentric cousins, aunts, or uncles you may remember growing up.

Caring Clowns serve residents who generally have mid to advanced dementia. Many of the residents are confined to wheelchairs, and are isolated, lonely, and in need of cheer.

This course series is part of [Programs for 50+ and Community Engagement](#) at The Chang School.

📌 Caring Clown Featured on the BrainShape Podcast

Listen to Lynda Del Grande, founder and coordinator of Caring Clown, talk about the benefits of laughter on the BrainShape podcast.



Fall 2020 Info Session: Thursday, September 10, 10:00 a.m.–12:00 p.m.

Join us on Thursday, September 10, from 10:00 a.m. to 12:00 p.m. for our Fall 2020 info session.

To RSVP for the info session, please email programsfor50plus@ryerson.ca or call 416-979-5103.

Who Should Take This Course Series?



What Will You Learn?



Testimonials **+**

How to Enrol in Courses **+**

Caring Clown in the News **+**

Toronto Challenge **+**

Course Series Requirements **-**

- Successful completion of 3 required courses

Connect with Us on Facebook **+**

Contact Us **+**

CATIA Engineering Design

Course Series

This program provides students with foundational, applied, and academic knowledge and skill sets in CATIA design. The courses offer students a comprehensive picture of current best practices in CATIA design and real-life industry applied case studies. They allow students to meet their individual interests in extending their knowledge and skills needed to support engineering design and product development. This knowledge and applicable skill set will be useful for technical digital practitioners whether they are serving on commercial, para-public, national defense, municipal, provincial, and national or international structural design projects or product development projects.

No previous background is required.

You will have the opportunity to acquire and use technical skill sets and best practices in CATIA design, together with analyses of real-life industry and engineering case studies. You will learn to transform and execute CAD system logistics with CATIA as products and design contexts change.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this 2 course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses

[CKAE 100 CATIA Engineering Design I](#)

[CKAE 101 CATIA Engineering Design II](#)

[CKAE 102 CATIA Engineering Design III](#)

What Will You Learn?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Sequence

+

Course Series Requirements

-

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Children's Publishing

Course Series

This course series is intended for individuals who wish to specialize in this dynamic and growing sector within the book publishing industry. Toronto is the centre for children's publishing in Canada, and Canada is a recognized leader in children's publishing worldwide. In-depth training in children's publishing will prepare our students for entry into this vibrant sector.

Want to find out more or ask a question about the **Course Series in Children's Publishing**? Connect with this program by email.

[Email us](#) 

Required Courses

[CDPB 300 Children's Classics in the 21st C](#)

[CDPB 301 Publishing for Children](#)

[CDPB 309 Editing Books for Children and Teens](#)


[CDPB 313 Mktg Books for Children and Teens](#)

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Get real industry experience through internship opportunities**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use these courses towards the [Certificate in Publishing](#)**
- **Apply for merit-based awards**

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

+

Contact Us

+

Coding, Programming, and Algorithms: Computer Science Fundamentals

Course Series

This program is designed for individuals who wish to become coders and computer programmers in software engineering. It provides training in the most popular programming languages (Java, C, and Python) and operating system (UNIX). In addition, this course series fulfills part of the prerequisite requirements for individuals to apply to Ryerson University's [Master of Data Science and Analytics](#) program.

No previous background is required.

You will learn to program and code professionally in the most popular programming languages among employers: Python, Javascript, and C++.

Acquire skills and techniques for maintaining an operating system (UNIX).

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Course

[CCPS 305 Data Structures](#)

Next Offered: Spring/Summer 2020

Electives (select 2)

[CCPS 109 Computer Science I](#)

Next Offered: Spring/Summer 2020

[CCPS 209 Computer Science II](#)

Next Offered: Spring/Summer 2020

[CCPS 616 Algorithms](#)

What Will You Learn?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Sequence

+

Course Series Requirements

—

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Computer Applications

Course Series

This course series is intended for individuals who have an interest in keeping up with the latest and hottest computer-specific applications, technology, and software. Students may take any combination of three courses in the series, in any order.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses (select 3)

[CIND 108 Data Analytics for Non-Data Analysts](#)

[CKCS 900 Introduction to C++](#)

[CKCS 901 Introduction to Cloud Computing](#)

[CKCS 902 Digital Speech Processing](#)

[CKCS 903 Fundamentals of Speech Recognition](#)

[CKCS 904 Introduction to Eye Tracking](#)

[CKCS 905 Contracting for Cloud Computing](#)

[CKCS 910 Fast Track in SEO](#)

Computer Programming for Game Developers

Course Series

This program teaches 3-D Unity and Autodesk's Maya (in a computer lab) to equip students with the programming and scripting skills set to develop, on server-based and mobile devices, a range of commercial and serious games such as video games, learning games, "training interactive", and augmented reality simulations and applications. The project-centred approach provides hands-on engaging computer programming application and game development that are closely analogous to work projects that the students will experience in their real-world work as game developers.

Required Courses

[CKCS 170 C++ and CSharp.net for Game Dev](#)

[CKCS 171 Math for Game Dev Design](#)

[CKCS 172 Game Mechanics for Game Dev](#)

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option

Contact Us

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+

Conservation and Renewal of Urban Buildings

Course Series

In this program, students master solutions associated with existing asset evaluation of damage and deterioration; preservation and rehabilitation of existing assets and urban spaces; repair and re-use of materials associated with cost control; and best practices in adaptive re-use and sustainability. Topics include management and renewal of public and private physical assets, including built infrastructure, and fixed plants such as urban buildings, airports, hospitals, broadband networks, and interior and open-air private and public spaces.

No previous background required.

You will learn to design and execute repairs, renovations, restorations and rehabilitations of urban buildings and infrastructures using up-to-date SMART building practices.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education

Required Courses

[CKAM 160 Infrastructure Repair](#)

[CKAM 170 Sustainable Building Design](#)

[CKAM 180 Preservation and Future Assets](#)

What Will You Learn?

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Who Should Enrol?

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Who Teaches the Courses?

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Industry and Careers

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Recommended Sequence

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Course Series Requirements

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- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Costume Specialties

Course Series

Theatrical costumes are created to meet the aesthetic and physical needs of a production, using specialized techniques and methods to achieve the custom designs created for the fantastical world of performance. The Course Series in Costume Specialties offers creative artists from any field – including theatre, fashion, textile, and visual arts – an opportunity to explore and develop creative practice in a studio setting.

The courses offer instruction and information for people interested in pursuing theatrical training part-time, costume and cosplay artists wishing to expand their skill set, and artisans wishing to gain alternative techniques and knowledge to incorporate into their own practice.

Through practical studio courses in a specific costume art or topic, you will not only survey a subject, but also gain problem-solving skills as you determine how to apply newly acquired skills and knowledge to creative projects. Classes begin with a short lecture and demonstration followed by hands-on exercises.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Answers to Frequently Asked Questions



Course Series Requirements



- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



Want to find out more or ask a question about the **Course Series in Costume Specialties?** Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses



[CDTH 460 Costume Painting and Dyeing](#)

[CDTH 461 Costume Specialty Building](#)

[CDTH 462 Costume Surface Design](#)

Creative Photography

Course Series

If you have a passion for photography, welcome to the Course Series in Creative Photography. Short-term courses between 12 and 24 hours in the evenings, and/or weekends, will test your creative abilities. Landscape, documentary, websites, portfolio development, portraits, and even pinhole digital imaging are some of the courses offered. Courses will be taught by professional photographers who work in the industry and who will help you create your ideas.

Want to find out more or ask a question about the **Course Series in Creative Photography?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 3) —

Select a minimum of 3 courses, totalling a minimum of 60 hours.

[CDFP 312 Art Direction for Ad Agencies](#)

[CDFP 318 Photographing in the Field](#)

[CDFP 319 Documentary Project](#)

[CDFP 355 Digital B&W Photography](#)

[CDFP 388 Pinhole Digital Images](#)

[CDFP 414 Traditional Photography](#)

[CDFP 417 Night Photography](#)

[CDFP 418 Landscape Photography](#)

[CDFP 419 Exploring Toronto Landscapes](#)

[CDFP 420 Making a Photographic Book](#)

[CDFP 421 The Interpretive Portrait](#)

[CDFP 422 Commercial Portraits](#)

[CDFP 423 The Portable Portrait Flash](#)

[CDFP 424 Introduction to Lightroom](#)

[CDFP 425 Lightroom Advanced](#)

[CDFP 432 Digital Printing Workshop](#)

[CDFP 907 Using a 4X5 View Camera](#)

[CDFP 908 Using Your Digital Camera](#)

[CDFP 915 The Travelling Camera](#)

[CDFP 924 Gallery Hopping](#)

[CDFP 925 Smartphones as a Fine Art Tool](#)

[CDFP 929 The Business of Photography](#)


[CDFP 945 Creative Child and Animal Portraits](#)

This course series offers the following benefits:

- Enrol right away – open admissions with no application required
- Take courses in any order – no prerequisites needed
- Earn a Professional Development Award on successful completion of all courses
- Use applicable courses towards the [Certificate in Photography Studies](#)
- Exhibit your creative work through special events
- Apply for merit-based awards

Course Series Requirements —

- Successful completion of 3 required courses (totalling a minimum of 60 hours)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

The Chang School Photography Exhibition +

Contact Us +

Creative Writing

Course Series

Welcome to the writing life at The Chang School!

Have you been holding on to an idea for a story for a long time? Have you wanted to develop a writing practice but don't know where to start? Maybe you already have a project on the go, but want to know how to take it to the next stage in its development.

Our goal is to jump-start your creativity and guide you through the craft of writing in various genres. Classes are small and students quickly form a community of emerging writers. Whether you are getting your feet wet with a beginner's course or making the final touches on your novel, we have a course to fit your needs.

Creative writing is both a craft and an art. Workshops allow students to dip a toe into the world of imaginative writing and then continue with more advanced workshops in a variety of genres.

We welcome beginners and advanced writers, and everyone in between.

What You Can Expect

- **Small classes with a hands-on approach:** From the first class, you'll roll up your sleeves and start writing.
- **Constructive and supportive feedback on your work:** Our courses feature lively, useful discussions on matters of craft and finding your voice.
- **Tips on how to get published:** Many of our students have published their work in journals, newspapers, magazines, and books.
- **Expert, award-winning instructors:** Visit our [Instructor Profile Directory](#) to read instructor biographies.

Earn a Professional Development Award in Creative Writing

Creative Writing workshops are non-credit, but students who successfully complete a minimum of three courses, totalling a minimum of 60 hours, are eligible to earn a Professional Development Award from The Chang School. You can also take more than three courses if you wish.

See Course Series Requirements for more information.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Jessica Westhead's *Worry* Recognized on CBC's Canada Reads 2020 Longlist

Chang School instructor Jessica Westhead's new novel, [Worry](#), has secured a place on the [CBC Canada Reads 2020 longlist](#). This year's theme is "one book to bring Canada into focus".

Jessica teaches both [Short Fiction Writing - Level I \(CWWR 410\)](#) and [Creative Travel Writing \(CWWR 952\)](#) in the Course Series in Creative Writing.

Want to find out more or ask a question about the **Course Series in Creative Writing**? Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 3)

Select a minimum of 3 courses, totalling a minimum of 60 hours.

[CWWR 298 Writing for The Children's Market](#)

[CWWR 305 Beyond Writing Romance Novels](#)

[CWWR 336 True to Life: Writing Your Own Story](#)

[CWWR 367 The Art of Promotional Writing](#)

[CWWR 369 Writers and the New Media](#)

[CWWR 410 Short Fiction Writing - Level I](#)

[CWWR 411 Short Fiction Writing - Level II](#)

[CWWR 415 Fiction and Non-Fiction Writing](#)

[CWWR 420 Novel Writing - Level I](#)

[CWWR 421 Novel Writing - Level II](#)

[CWWR 425 Short Fiction and Novel Writing - Level III](#)

[CWWR 430 Writing Poetry: Rapping, Reading, Revising](#)

[CWWR 436 True to Life: Writing Your Own Story - Level II](#)

[CWWR 446 Writing Television Situation Comedy](#)

[CWWR 450 From The Horse's Mouth - Getting Published](#)

[CWWR 514 Works in Progress: Writing Workshop](#)

[CWWR 952 Creative Travel Writing](#)


Congratulations, Jessica!

Testimonials **+**

Our Students' Success **+**

Course Series Requirements **-**

- Successful completion of 3 required courses (totalling a minimum of 60 hours)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Online Writing Workshops **+**

Contact Us **+**

Drone/UAV Ground School

Course Series

This program prepares students for Transport Canada's UAV Pilot Permit Exam, Transport Canada Compliant UAV operations, and UAV remote sensing applications.

The program focuses on drone/UAV technologies, best practices, risk and crisis management, drone equipment maintenance and repairs, flight planning, remote sensing applications, standard operation procedures, compliant operations, and post-flight image/video processing. Pilot knowledge requirements topics include air law, navigation, meteorology, aeronautics, and radiotelephony.

This comprehensive program instructs students to have a compliant drone/UAV enterprise and/or career in Canada. Students 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. During the program, Canadian UAV/drone industry leaders are invited as guest speakers to share their valuable expertise with students and provide networking opportunities.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education and also qualify for the Industry Canada Restricted Operator Certificate with Aeronautical (ROC-A).

Required Courses

[CKCS 175 Drone/UAV Pilot Ground School](#)

[CKCS 176 Drone/UAV Operations](#)

[CKCS 177 UAV Remote Sensing Apps](#)

What Will You Learn?



Who Teaches the Courses?



Industry and Careers



Recommended Sequence



Course Series Requirements



- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option



Contact Us



Early Childhood Mental Health and Well-Being

Course Series

This course series can be completed entirely online.

This program offers professionals in the field of early learning and care the opportunity to enhance professional practice skills related to child and family health, well-being, early intervention, and inclusive practices. Students will critically explore frameworks, theories, and practices – both current and evolving – as they relate to the children and families with whom they work.

Who Should Enrol?

+

Program Design

+

Course Series Requirements

—

- Successful completion of 1 required course
- Successful completion of 2 electives*

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Health and Well-Being: [CCLD 444](#), [CCLD 446](#)

Professional Practice: [CCLD 442](#), [CCLD 445](#)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Required Course

—

[CCLD 342 Assessment for Programming](#)

Electives (select 2)

—

[CCLD 442 Infant Mental Health](#)

[CCLD 444 Therapies for Young Children](#)

[CCLD 445 Inclusion and Consultation](#)

Next Offered: Spring/Summer 2020

[CCLD 446 Children and Chronic Illness](#)

EarlyON Child and Family Centres

Course Series

Harness the knowledge and skills required by both professionals in early learning and family supports to fully engage families from diverse communities during this time of transition in Ontario. Explore the needs of the broader community to serve families and children through courses that address the growing demand for expanded understanding - integrating knowledge from the fields of early learning and family supports. You'll learn strategies to support families in programs and services, approaches to work effectively across diverse groups, and gain competencies in meeting the developmental needs of children from birth to 12 years of age.

This course series can be completed entirely online.

Course Series Requirements

- Successful completion of 2 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Additional Details

Required Courses

[CVFS 401 Contemporary Family Issues](#)

[CVFS 403 Family Supports Theory and Practice](#)

Electives (select one)

[CVFS 406 Guiding Children's Development](#)

[CINT 900 Program Planning and Evaluation Strategies](#)

Entrepreneurship and Small Business

Course Series

The three courses required for this course series will provide an essential body of knowledge needed to start and/or grow a business venture within a multicultural context.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

You may only select one of CENT 526 or CENT 601.

[CENT 500 New Venture Startup](#)

[CENT 505 Small-Business Management](#)

[CENT 526 Entrepreneurial Behaviour and Strategy](#)

[CENT 601 Identifying Opportunities](#)

Environmental Sciences

Course Series

Learn about environmental legislation and its implementation as well as the principles of site assessment, waste management, and environmental audits. Gain knowledge of the fundamentals of air, water, and soil processes and cover the latest in green technologies.

Human impact on the environment requires effective management practices to protect the environment. Environmental sciences offer an increasing number of career opportunities in fields as varied as ecology, occupational health and safety, physical science, bioremediation, engineering, law, and management.

No previous background is required.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education

Required Courses (select 3) —

[CKES 120 Environmental and Atmospheric Processes](#)

[CKES 160 Waste Management](#)

[CKES 170 Water Treatment](#)

[CKES 180 Site Assessment](#)

[CKES 190 Renewable Energy and Green Technology](#)

[CKES 210 Applied Environmental Analysis](#)

[CKES 220 Environmental Law and Practice](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Course Series Requirements —

Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Family Supports and Community Engagement

Course Series

This course series addresses the growing demand for skills that expand and integrate knowledge for practitioners in the fields of early learning, family support, community engagement, and health-related sectors. It will also support learners working in diverse community-based programs.

Students will gain knowledge and competencies to address challenges experienced by contemporary families while promoting healthy child development. This course series also focuses on specific strategies to engage families in effective planning, problem-solving, and decision-making processes that will improve conditions of family and community well-being.

Course Series Requirements

- Successful completion of 2 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CSWP 936 Community Engagement Practices](#)

[CVFS 403 Family Supports Theory and Practice](#)

Electives (select 1)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CSWP 935 Engaging Diverse Communities](#)

[CVFS 401 Contemporary Family Issues](#)

[CVFS 406 Guiding Children's Development](#)

Film Production Techniques Using Mobile Devices

Course Series

The current trends in mobile devices have provided consumers and media professionals alike with the tools to capture imagery and audio in ways that have never existed before with such immediacy. Instruction will include topics such as visual story telling, techniques for fiction and documentary filmmaking, video production techniques for social and informal media, editing and advanced postproduction techniques, and video publishing techniques for distribution to various media.

Want to find out more or ask a question about the **Course Series in Film Production Techniques Using Mobile Devices?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 4) —

[CDMP 350 Visual Story Telling](#)

[CDMP 351 Filmmaking Techniques](#)

[CDMP 352 Video Productions Techniques](#)

[CDMP 353 Film Editing Techniques](#)

[CDMP 354 Advanced Post-Production](#)


[CDMP 355 Video Publishing Techniques](#)

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Exhibit your creative work through special events**
- **Apply for merit-based awards**

Course Series Requirements —

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Peter Gerretsen Film Awards +

Contact Us +

Financial Predictive Data Analytics

Course Series

Learn to analyze financial data and statistics, forecast financial predictions, and execute real-world, predictive financial analysis projects (including querying financial data using R and Python) to provide evidence-based financial decision-making.

No previous background is required.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this 3 course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Course —

[CMTH 501 Numerical Analysis I](#)

Electives (select 2) —

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CMTH 304 Probability and Statistics I](#)

[CMTH 380 Probability and Statistics I](#)

Next Offered: Spring/Summer 2020

[CMTH 404 Probability and Statistics II](#)

[CMTH 480 Probability and Statistics II](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Course Series Requirements —

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Fine Art Practice

Course Series

This program is an opportunity to develop practical fine art skills and gain knowledge of art history. The studio courses cover drawing, graphic design, animation, and drafting for set design. The art history courses cover prehistoric to modern art.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use applicable courses towards the [Certificate in Design for Arts and Entertainment](#), the [Certificate in Digital Art Production](#), the [Certificate in Film Studies](#), the [Certificate in Image Arts](#), or the [Certificate in Fashion Coordination and Styling](#)**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Course Series in Fine Art Practice?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 3) —

[CDFA 104 Fashion Drawing I](#)

[CDID 170 Drafting for Entertainment](#)

[CFPN 534 Graphic Design](#)

[CFPN 541 Digital Animation Concepts](#)

Next Offered: Spring/Summer 2020

[CMPC 101 Visual Studies I](#)


[CMPC 103 Art and the Classical Tradition](#)

[CMPC 203 Art in the Modern World](#)

Course Series Requirements

 —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Gender and Sexuality

Course Series

Explore critical and theoretical perspectives on gender and sexuality through this course series. Choose from a variety of courses that will deepen your understanding of the important interrelationships of gender, sexuality, and society.

What Will You Learn?

+

Who Should Take This Course Series?

+

Course Series Requirements

-

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Required Course

-

[CSOC 633 Sex, Gender Identities and Sexualities](#)

Electives (select 2)

-

[CCRM 515 Gendering Justice](#)

[CENG 602 Women's Writing](#)

[CFNF 400 The Social Context of Human Sexuality](#)

[CFNY 409 Gender and Food Security](#)

[CHST 658 Sex in the City](#)

Next Offered: Spring/Summer 2020

[CINT 906 Sexuality: Power and Pleasure](#)

Next Offered: Spring/Summer 2020

[CPHL 606 Philosophy of Love and Sex](#)

Next Offered: Fall 2020

[CPOL 501 Women, Power and Politics](#)

Next Offered: Spring/Summer 2020

[CPOL 510 The Politics of Sexual Diversity](#)

[CSOC 885 Women and Islam](#)

Hadoop, Python, and Tableau Big Data Tools

Course Series

Acquire hands-on technical programming skills for Hadoop, Python, and Tableau Big Data Tools Administration.

Learn how to perform big data analytics queries on unstructured data, visual data, and social media data using Hortonworks, SQL, Hadoop, R, Python, Excel and Tableau.

You will learn up-to-date techniques in prediction and analyses of large and complex data. These technical skill sets are sought after in most fields across private, public, and non-profit sectors.

This is an **Open Admissions** program to help you advance or change your career. Classes take place in a computer lab on-campus at Ryerson University. You are not required to bring your own laptop to class.

No previous background is required.

What Will You Learn?

+

Who Should Enrol?

+

Industry and Careers

+

Fast Track Option

+

Technical Requirements

+

Course Series Requirements

-

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Required Courses (select 3)

-

[CKCS 107 Data Analytics Through Excel](#)

[CKCS 113 Intro to Machine Learning](#)

[CKCS 115 Big Data Location Analyst](#)

[CKCS 116 Crowd-Sourcing Big Data](#)

[CKCS 117 Sharing Economy Big Data](#)

[CKCS 118 Big Data and Virtual Reality](#)

[CKCS 150 Introduction to Programming in Python](#)

[CKCS 155 Intro to Hadoop and Tableau](#)

Health Ethics

Course Series

Students will be provided with opportunities for exploring and examining ethical considerations in health and healthcare systems.

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

You may only select one of CPHL 302 or CPHL 509.

[CPHL 302 Ethics and Health Care](#)

[CPHL 444 Ethics in Health Services Management](#)

[CPHL 509 Bioethics](#)

[CPHL 602 Health Policy: Ethics and Justice](#)

Health Informatics

Course Series

Students will be introduced to the basic concepts of health informatics from both the information technology and health systems perspectives.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses (select 3)

[CHIM 303 Intro to Health Coding Classification](#)

[CHIM 305 Introduction to Health Informatics](#)

[CHIM 306 Healthcare Interoperability](#)

[CHIM 307 Human-Computer Interfaces in Healthcare](#)

[CLAW 402 Health Information Access and Privacy](#)

Health Services Management

Course Series

Students will be introduced to the basic principles of health services management.

This course series can be completed entirely online.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CHSM 305 The Management Cycle](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 437 Human Resources Management in Healthcare](#)

Immigration and Settlement Studies

Course Series

This course series provides students with the knowledge and skills needed to serve immigrants and their families directly, create policy related to that service, or create a supportive workplace environment for diverse populations.

Course Series Requirements

- Successful completion of 3 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CINT 913 Issues of Migration](#)

[CINT 914 Settlement Experiences](#)

[CINT 915 Responses to Migration](#)

Electives (select 1)

[CECN 640 Economics of Immigration](#)

[CGEO 691 Canadian Immigration: Patterns and Place](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CMHR 600 Diversity and Inclusion in the Workplace](#)

[CMHR 700 Cross-Cultural Dimensions of Organizational Behaviour](#)

Next Offered: Spring/Summer 2020

[CPSY 620 Psychology of Immigration](#)

[CPSY 941 Cross Cultural Psychology](#)

[CSOC 474 Immigration, Borders and Belonging](#)

Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video

Course Series

The Chang School's Course Series in Inclusive Media



Learn how to use the latest live closed captioning (CC) and audio description/described video (AD/DV) techniques and technologies to create inclusive and accessible broadcast content for a variety of audiences. Through hands-on training and theoretical learning, explore CC and AD/DV software tools, script writing and re-speaking techniques, and relevant industry regulations and legislation. Industry experts will help you develop both fundamental and advanced skills for this growing field.

Want to find out more or ask a question about the **Course Series in Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video?**

Express interest to connect with this program and receive updates, including information about our upcoming intensive option.

[Express interest](#)

This course series offers the following benefits:

- Enrol right away – open admissions with no application required
- Earn a Professional Development Award on successful completion of all courses
- Apply for merit-based awards

What Makes Our Program Unique?

+

Who Teaches the Courses?

+

Advisory Committee Members

+

Course Series Requirements

–

Required Courses (select 4)

[CDIM 100 Inclusive Media and Regulations](#)

[CDIM 101 Closed Captioning](#)

[CDIM 102 Audio Description](#)

[CDIM 103 Closed Captioning Advanced](#)

[CDIM 104 Audio Description Advanced](#)

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option +

Inclusive Media in the News +

Conference Presentations +

Contact Us +

Intercultural Communication in the Canadian Workplace (ICCW)

Course Series

The Intercultural Communication in the Canadian Workplace (ICCW) course series is offered by the [Workplace Communication in Canada \(WCC\)](#) Program.

The WCC Program offers on- and off-campus courses designed to help internationally and Canadian-trained individuals develop the intercultural communication and soft skills necessary for meaningful employment and career mobility in the Canadian labour market.

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the Workplace Communication in Canada (WCC) program at wcc@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Supplementary Course

Contact Us

Required Courses

[CDCE 305 Intro to Intercultural Communication](#)

[CDCE 306 Managing Workplace Relationships](#)

[CDCE 307 Wking with Culturally Diverse Clients](#)

[CDCE 308 Cross Cultural Teamwork](#)

Interdisciplinary Conflict Resolution and Team Building

Course Series

This course series provides health and community services professionals and students with the knowledge and skills to work in interdisciplinary teams with a specific focus on understanding the nature of conflict and its root causes as well as team building. Students will explore a range of conflict resolution methods, approaches, and strategies. The relationship between conflict, conflict resolution, and issues of diversity will be addressed. The interpersonal skills and personal and professional values that impact on working in teams and the dynamics of an effective team will also be considered.

Course Series Requirements

- Successful completion of 2 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CINT 907 Team Work for Community Services](#)

Electives (select 1)

[CINT 920 Community Collaborations](#)

[CINT 921 Writing for Disability Activism](#)

[CSWP 935 Engaging Diverse Communities](#)

Film Production Techniques Using Mobile Devices

Course Series

The current trends in mobile devices have provided consumers and media professionals alike with the tools to capture imagery and audio in ways that have never existed before with such immediacy. Instruction will include topics such as visual story telling, techniques for fiction and documentary filmmaking, video production techniques for social and informal media, editing and advanced postproduction techniques, and video publishing techniques for distribution to various media.

Want to find out more or ask a question about the **Course Series in Film Production Techniques Using Mobile Devices?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 4) —

[CDMP 350 Visual Story Telling](#)

[CDMP 351 Filmmaking Techniques](#)

[CDMP 352 Video Productions Techniques](#)

[CDMP 353 Film Editing Techniques](#)

[CDMP 354 Advanced Post-Production](#)


[CDMP 355 Video Publishing Techniques](#)

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Exhibit your creative work through special events**
- **Apply for merit-based awards**

Course Series Requirements —

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Peter Gerretsen Film Awards +

Contact Us +

Financial Predictive Data Analytics

Course Series

Learn to analyze financial data and statistics, forecast financial predictions, and execute real-world, predictive financial analysis projects (including querying financial data using R and Python) to provide evidence-based financial decision-making.

No previous background is required.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this 3 course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Course —

[CMTH 501 Numerical Analysis I](#)

Electives (select 2) —

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CMTH 304 Probability and Statistics I](#)

[CMTH 380 Probability and Statistics I](#)

Next Offered: Spring/Summer 2020

[CMTH 404 Probability and Statistics II](#)

[CMTH 480 Probability and Statistics II](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Course Series Requirements —

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Fine Art Practice

Course Series

This program is an opportunity to develop practical fine art skills and gain knowledge of art history. The studio courses cover drawing, graphic design, animation, and drafting for set design. The art history courses cover prehistoric to modern art.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use applicable courses towards the [Certificate in Design for Arts and Entertainment](#), the [Certificate in Digital Art Production](#), the [Certificate in Film Studies](#), the [Certificate in Image Arts](#), or the [Certificate in Fashion Coordination and Styling](#)**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Course Series in Fine Art Practice?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses (select 3) —

[CDFA 104 Fashion Drawing I](#)

[CDID 170 Drafting for Entertainment](#)

[CFPN 534 Graphic Design](#)

[CFPN 541 Digital Animation Concepts](#)

Next Offered: Spring/Summer 2020

[CMPC 101 Visual Studies I](#)


[CMPC 103 Art and the Classical Tradition](#)

[CMPC 203 Art in the Modern World](#)

Course Series Requirements

 —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Gender and Sexuality

Course Series

Explore critical and theoretical perspectives on gender and sexuality through this course series. Choose from a variety of courses that will deepen your understanding of the important interrelationships of gender, sexuality, and society.

What Will You Learn?

+

Who Should Take This Course Series?

+

Course Series Requirements

-

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Required Course

-

[CSOC 633 Sex, Gender Identities and Sexualities](#)

Electives (select 2)

-

[CCRM 515 Gendering Justice](#)

[CENG 602 Women's Writing](#)

[CFNF 400 The Social Context of Human Sexuality](#)

[CFNY 409 Gender and Food Security](#)

[CHST 658 Sex in the City](#)

Next Offered: Spring/Summer 2020

[CINT 906 Sexuality: Power and Pleasure](#)

Next Offered: Spring/Summer 2020

[CPHL 606 Philosophy of Love and Sex](#)

Next Offered: Fall 2020

[CPOL 501 Women, Power and Politics](#)

Next Offered: Spring/Summer 2020

[CPOL 510 The Politics of Sexual Diversity](#)

[CSOC 885 Women and Islam](#)

Hadoop, Python, and Tableau Big Data Tools

Course Series

Acquire hands-on technical programming skills for Hadoop, Python, and Tableau Big Data Tools Administration.

Learn how to perform big data analytics queries on unstructured data, visual data, and social media data using Hortonworks, SQL, Hadoop, R, Python, Excel and Tableau.

You will learn up-to-date techniques in prediction and analyses of large and complex data. These technical skill sets are sought after in most fields across private, public, and non-profit sectors.

This is an **Open Admissions** program to help you advance or change your career. Classes take place in a computer lab on-campus at Ryerson University. You are not required to bring your own laptop to class.

No previous background is required.

What Will You Learn? +

Who Should Enrol? +

Industry and Careers +

Fast Track Option +

Technical Requirements +

Course Series Requirements -

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Required Courses (select 3) -

[CKCS 107 Data Analytics Through Excel](#)

[CKCS 113 Intro to Machine Learning](#)

[CKCS 115 Big Data Location Analyst](#)

[CKCS 116 Crowd-Sourcing Big Data](#)

[CKCS 117 Sharing Economy Big Data](#)

[CKCS 118 Big Data and Virtual Reality](#)

[CKCS 150 Introduction to Programming in Python](#)

[CKCS 155 Intro to Hadoop and Tableau](#)

Health Ethics

Course Series

Students will be provided with opportunities for exploring and examining ethical considerations in health and healthcare systems.

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

You may only select one of CPHL 302 or CPHL 509.

[CPHL 302 Ethics and Health Care](#)

[CPHL 444 Ethics in Health Services Management](#)

[CPHL 509 Bioethics](#)

[CPHL 602 Health Policy: Ethics and Justice](#)

Health Informatics

Course Series

Students will be introduced to the basic concepts of health informatics from both the information technology and health systems perspectives.

Course Series Requirements

- Successful completion of 3 required courses

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Related Certificate

Contact Us

Required Courses (select 3)

[CHIM 303 Intro to Health Coding Classification](#)

[CHIM 305 Introduction to Health Informatics](#)

[CHIM 306 Healthcare Interoperability](#)

[CHIM 307 Human-Computer Interfaces in Healthcare](#)

[CLAW 402 Health Information Access and Privacy](#)

Health Services Management

Course Series

Students will be introduced to the basic principles of health services management.

This course series can be completed entirely online.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CHSM 305 The Management Cycle](#)

[CHSM 306 Management Leadership and Decision-Making](#)

[CHSM 437 Human Resources Management in Healthcare](#)

Immigration and Settlement Studies

Course Series

This course series provides students with the knowledge and skills needed to serve immigrants and their families directly, create policy related to that service, or create a supportive workplace environment for diverse populations.

Course Series Requirements

- Successful completion of 3 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CINT 913 Issues of Migration](#)

[CINT 914 Settlement Experiences](#)

[CINT 915 Responses to Migration](#)

Electives (select 1)

[CECN 640 Economics of Immigration](#)

[CGEO 691 Canadian Immigration: Patterns and Place](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CMHR 600 Diversity and Inclusion in the Workplace](#)

[CMHR 700 Cross-Cultural Dimensions of Organizational Behaviour](#)

Next Offered: Spring/Summer 2020

[CPSY 620 Psychology of Immigration](#)

[CPSY 941 Cross Cultural Psychology](#)

[CSOC 474 Immigration, Borders and Belonging](#)

Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video

Course Series

The Chang School's Course Series in Inclusive Media



Learn how to use the latest live closed captioning (CC) and audio description/described video (AD/DV) techniques and technologies to create inclusive and accessible broadcast content for a variety of audiences. Through hands-on training and theoretical learning, explore CC and AD/DV software tools, script writing and re-speaking techniques, and relevant industry regulations and legislation. Industry experts will help you develop both fundamental and advanced skills for this growing field.

Want to find out more or ask a question about the **Course Series in Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video?**

Express interest to connect with this program and receive updates, including information about our upcoming intensive option.

[Express interest](#)

This course series offers the following benefits:

- Enrol right away – open admissions with no application required
- Earn a Professional Development Award on successful completion of all courses
- Apply for merit-based awards

What Makes Our Program Unique?



Who Teaches the Courses?



Advisory Committee Members



Course Series Requirements



Required Courses (select 4)

[CDIM 100 Inclusive Media and Regulations](#)

[CDIM 101 Closed Captioning](#)

[CDIM 102 Audio Description](#)

[CDIM 103 Closed Captioning Advanced](#)

[CDIM 104 Audio Description Advanced](#)

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option +

Inclusive Media in the News +

Conference Presentations +

Contact Us +

Intercultural Communication in the Canadian Workplace (ICCW)

Course Series

The Intercultural Communication in the Canadian Workplace (ICCW) course series is offered by the [Workplace Communication in Canada \(WCC\)](#) Program.

The WCC Program offers on- and off-campus courses designed to help internationally and Canadian-trained individuals develop the intercultural communication and soft skills necessary for meaningful employment and career mobility in the Canadian labour market.

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the Workplace Communication in Canada (WCC) program at wcc@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Supplementary Course

Contact Us

Required Courses

[CDCE 305 Intro to Intercultural Communication](#)

[CDCE 306 Managing Workplace Relationships](#)

[CDCE 307 Wking with Culturally Diverse Clients](#)

[CDCE 308 Cross Cultural Teamwork](#)

Interdisciplinary Conflict Resolution and Team Building

Course Series

This course series provides health and community services professionals and students with the knowledge and skills to work in interdisciplinary teams with a specific focus on understanding the nature of conflict and its root causes as well as team building. Students will explore a range of conflict resolution methods, approaches, and strategies. The relationship between conflict, conflict resolution, and issues of diversity will be addressed. The interpersonal skills and personal and professional values that impact on working in teams and the dynamics of an effective team will also be considered.

Course Series Requirements

- Successful completion of 2 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CINT 907 Team Work for Community Services](#)

Electives (select 1)

[CINT 920 Community Collaborations](#)

[CINT 921 Writing for Disability Activism](#)

[CSWP 935 Engaging Diverse Communities](#)

Interdisciplinary Studies: Community Partnerships

Course Series

This program provides health and community services professionals and students with the knowledge and skills to build interdisciplinary community partnerships and to understand the challenges of developing and sustaining such partnerships. Through practical examples and case studies, students will develop community facilitation skills.

Required Courses

[CINT 917 Interprof. Ed. for Community Development](#)

Next Offered: Spring/Summer 2020

[CINT 920 Community Collaborations](#)

Who Should Enrol?

+

Program Design

+

Course Series Requirements

-

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

+

Interdisciplinary Studies: Interdisciplinary Program Management

Course Series

This program provides health and community services professionals and students with the knowledge and skills to plan and/or fundraise in various interdisciplinary team roles with a specific focus on health care managerial skills.

Required Course —

[CINT 900 Program Planning and Evaluation Strategies](#)

Who Should Enrol? +

Program Design +

Electives (select 1) —

Course Series Requirements —

[CINT 904 Health Promotion and Community Development](#)

- Successful completion of 1 required course
- Successful completion of 1 elective

[CINT 916 Introduction to Fundraising](#)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Interdisciplinary Studies: International Field Experience

Course Series

This program provides health and community services professionals and students with the opportunity to 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. It will allow them to deepen their understanding of development issues and to experience part of their learning in an interdisciplinary, international, and intercultural setting.

Required Courses

[CINT 911 International Community Development](#)

[CINT 912 Community Development: International Field Experience](#)

Course Series Requirements

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Internationally Trained Medical Doctors (ITMD) Bridging Program

Course Series

The Chang School's Internationally Trained Medical Doctors (ITMD) Bridging Program



The goal of this unique learning opportunity is to successfully integrate highly qualified, skilled, and experienced internationally trained medical doctors (ITMDs) into non-licensed healthcare employment. The program provides additional skills needed for participants to gain employment in health research, health informatics, data analysis, and health management positions in Canada as an alternative to medical doctor licensing.

Who Teaches the Courses? +

Tuition and Financial Aid +

How to Apply +

Course Series Requirements -

- Successful completion of 5 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the ITMD Bridging Program at itmds@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Admission Criteria +

Testimonials +

Frequently Asked Questions +

Our Support Partners +

Required Courses -

[CKHS 100 Health Research Methodology](#)

Next Offered: Spring/Summer 2020

[CKHS 110 Health Informatics and Data Management](#)

[CKHS 120 Fund of PM for Health Professionals](#)

[CKHS 140 Health Pro Comm and Ldshp Skills](#)

Next Offered: Spring/Summer 2020

[CKHS 150 Multidisc Hlth Rsrch/Mgmt Seminar](#)

Next Offered: Spring/Summer 2020

Supplementary Course -

The following course will give you the opportunity to further develop your learning and professional skills; however, it is not required for the Professional Development Award.

[CKHS 130 Practicum Placement](#)

Roadmap for ITMDs: Evidence-based Study

+

Bridge Newsletter

+

Contact Us

+

Introduction to Health Data Analytics

Course Series

This program is designed for students who want to fill gaps in their professional health background to achieve greater professional development and/or transition careers into the health field. The demand for healthcare professionals with data analytical skills is growing in both health-specific and health-related fields, especially with the increase in accountability policies and the requirement of many health graduate programs that students have courses in this area to be admitted.

Required Courses

[CHIM 301 Healthcare Information Analysis](#)

[CHIM 408 Statistics for Health Services Managers](#)

[CHSM 301 The Healthcare Systems](#)

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Introduction to Privacy, Access, and Information Management

Course Series

In our current data-driven economy, the rapid proliferation of emerging technologies poses significant implications with the regard to the protection of personal data and access to information. This program equips learners from all sectors with the foundational knowledge and skills needed to navigate the complex and often unpredictable world of privacy and access.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CLAW 401 Information Access and Privacy Protection](#)

[CZIT 427 Data and Info. Mgmt for Privacy](#)

[CZLW 327 Privacy By Design](#)

Introductory Accounting

Course Series

This course series provides students interested in developing accounting skills with essential introductory accounting knowledge.

Course Series Requirements

The professional development award may be achieved in one of the following ways:

- Successful completion of courses in Option 1 (CACC 110 and CACC 410)

OR

- Successful completion of courses in Option 2 (CACC 100, CACC 333, and CACC 406)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses (Option 1)

The professional development award may be achieved by completing all courses in either this Option or Option 2.

[CACC 110 Financial Accounting](#)

[CACC 410 Management Accounting](#)

Required Courses (Option 2)

The professional development award may be achieved by completing all courses in either this Option or Option 1.

[CACC 100 Introductory Financial Accounting](#)

Next Offered: Fall 2020

[CACC 333 Core Concepts of Accounting](#)

[CACC 406 Introductory Management Accounting](#)

iPhone and Android Applications Developer

Course Series

As part of this course series, you will develop apps for Android and iPhone, the two most popular and prominent mobile development platforms. You will have the opportunity to learn Javascript programming for Android and Object Oriented programming for iPhone. You will also have the option to learn C# and Python.

No previous background is required and this course series is applicable to all industries.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this two-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses

[CKCS 185 Intro to Android Apps Development](#)

[CKCS 186 Intro to iPhone Apps Development](#)

What Will You Learn?



Who Teaches the Courses?



Who Should Enrol?



Recommended Sequence



Course Series Requirements



- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



Leadership in Accessibility and Inclusion

Course Series

Increase inclusion and optimize accessibility in your workplace and community. This course series provides a foundation of knowledge on accessibility and inclusion and builds on this through courses on legislation, digital accessibility, employment, and public space design.

An experiential learning capstone course -- a project-based opportunity in the community provides the opportunity to apply the concepts and knowledge gained through your studies. Expand on your first hand experience with policy and organizational changes and build marketable hands-on experience as you build your personal network in the community.

This course series can be completed entirely online.

Learning Outcomes



Who Should Enrol?



About the Academic Coordinator: Darren Cooper




Testimonial



Course Series Requirements



- Successful completion of 3 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



Additional Details



Required Courses



[CVAS 100 Accessibility and Compliance Awareness](#)

[CVAS 110 Accessibility Standards](#)

[CVAS 500 Field Experience: Capstone](#)

Electives (select one)



[CVAS 200 Introducing Digital Accessibility](#)

[CVAS 210 Recruitment, Training, and Employment](#)

[CVAS 230 Public Spaces](#)

Next Offered: Spring/Summer 2020

Leading and Planning for Patient Experience

Course Series

This program is designed for healthcare practitioners who are committed to advancing patient experience in their organizational setting, while at the same time, optimizing their leadership and planning capacities. Participants will also practice and acquire a range of skills related to the healthcare system, patient experience, project management, and conflict resolution.

Required Course

[CVIN 150 Advancing the Patient Experience](#)

Course Series Requirements

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Electives (select 2)

[CHSM 301 The Healthcare Systems](#)

[CINT 905 Conflict Resolution in Community Services](#)

Next Offered: Spring/Summer 2020

[CTEC 210 Fundamentals of Project Management](#)

[CVNU 360 Advanced Leadership and Management](#)

Contact Us

Lean Six Sigma and Sustainable Industry Enterprise

Course Series

Learn to promote sustainability by prioritizing, deploying, and implementing best practices with proven techniques, including Lean Six Sigma, to execute vital strategic plans in private and public enterprise. You will come away with the ability to generate organizational transformation, resulting in eco-efficiency, innovative products and services, and engaged communities, all while gaining competitive advantage globally. You will also enhance systems-thinking, decision-making, and consensus-building abilities to maximize their organizations' impacts.

No previous background required and this course series can be completed entirely online.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses (select 3) —

[CKSS 100 Fundamentals in Sustainability I](#)

[CKSS 101 Fundamentals in Sustainability II](#)

[CKSS 210 Lean Six Sigma Contin Improvement](#)

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Sequence +

Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate +

Contact Us +

Marketing Innovation

Course Series

Canada's competitiveness in the world depends on the ability to innovate. Having a good idea is not enough to be successful and there are specialized skills required to bring a new product or service to market. This program is for students interested in the development and marketing of new products and services.

Course Series Requirements

- Successful completion of 3 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CMKT 300 Marketing Metrics and Analysis](#)

[CMKT 400 Understanding Consumers and the New Media](#)

[CMKT 730 Assessing/Managing Market Opportunities](#)

Electives (select 1)

[CMKT 500 Marketing Research](#)

[CMKT 510 Innovations in Marketing](#)

[CMKT 723 Services Marketing](#)

[CMKT 731 Competitive Intelligence](#)

Marketing Research

Course Series

This program provides various techniques to measure marketing performance in organizations; it introduces the use of theories of social sciences and metrics to allow marketers to understand, analyze, and respond to consumer needs in the digital age. Students will learn how to effectively prepare, analyze, and interpret large databases and use both qualitative and quantitative tools to make strategic and sound marketing decisions.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

You may only select one of CMKT 400 or CMKT 700.

[CMKT 300 Marketing Metrics and Analysis](#)

[CMKT 400 Understanding Consumers and the New Media](#)

[CMKT 500 Marketing Research](#)

[CMKT 700 Business](#)

[Intelligence/Decision Modeling](#)

Paediatric Health Assessment

Course Series

These courses will build on nurses' existing health assessment expertise by providing advanced knowledge and specific skills for the assessment of infants, children, and adolescents. Nurses will have the opportunity to broaden their expertise with system-specific assessment approaches across all paediatric developmental stages and diverse healthcare needs. This course series includes a course held at the state-of-the-art SickKids Simulation Lab.

Required Courses

[CVNU 113 Paediatric Health Assessment](#)

[CVNU 114 Paediatric Health Assessment Workshop](#)

Who Should Enrol



Learning Outcomes



Course Delivery



About Our Course Development Team



Course Series Requirements



- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



Patient Safety and Nursing Informatics

Course Series

This program blends the concepts of nursing informatics as a specialty nursing practice and its impact on promoting safe patient care within the context of clinical information and technology. The program will be of interest to nurses who are seeking to broaden their frontline and leadership experience and expertise in nursing informatics.

Course Series Requirements

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Required Courses

[CHSM 301 The Healthcare Systems](#)

[CVNU 322 Computer and Information Management in Nursing](#)

Professional Healthcare Careers Foundations

Course Series

Meet your academic university undergraduate degree course requirements to apply for entrance to healthcare career professional schools, namely: medical school, veterinary school, dentistry school, pharmacy school, midwifery school, physical therapy school, optometry school, osteopathy school, podiatry school, speech pathology, and graduate programs including environmental biology and biomedical sciences/engineering.

No previous background required. This course series is completed in class.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?

+

Who Should Enrol?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Sequence

+

Course Series Requirements

—

- Successful completion of 3 required courses

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Biology: [CBLG 10A](#) and [CBLG 10B](#), [CBLG 143](#), [CBLG 144](#), [CBLG 151](#), [CBLG 311](#)

Chemistry: [CCHY 103](#), [CCHY 242](#), [CCHY 381](#), [CKCH 107](#), [CKCH 113](#), [CKCH 142](#), [CKCH 143](#), [CKCH 225](#), [CKCH 227](#)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Required Courses (select 3)

—

CBLG 10A is a multi-term course. 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.

If you wish to pursue CKCH 113, you must also select CKCH 107 as together these courses are equivalent to CHY 113.

If you wish to pursue CKCH 142, you must also select CKCH 143 as together these courses are equivalent to CHY 142.

If you wish to pursue CKCH 225, you must also select CKCH 227 as together these courses are equivalent to BCH 261.

[CBLG 10A Anatomy and Physiology-A](#)

[CBLG 143 Biology I](#)

[CBLG 144 Biology II](#)

[CBLG 151 Microbiology I](#)

[CBLG 311 Cell Biology](#)

[CCHY 103 General Chemistry I](#)

[CCHY 242 Organic Chemistry II](#)

[CCHY 381 Physical Chemistry I](#)

[CKCH 107 General Chemistry Laboratory](#)

[CKCH 113 General Chemistry II](#)

[CKCH 142 Organic Chemistry I](#)

[CKCH 143 Organic Chemistry Laboratory](#)

[CKCH 225 Biochemistry I](#)

[CKCH 227 Biochemistry Laboratory I](#)

[CMTH 125 Mathematics for Professional Programs](#)

[CMTH 131 Modern Mathematics I](#)

[CMTH 207 Calculus and
Computational Methods I](#)

[CMTH 231 Modern Mathematics
II](#)

[CMTH 304 Probability and
Statistics I](#)

[CMTH 310 Calculus and
Computational Methods II](#)

[CMTH 404 Probability and
Statistics II](#)

[CPCS 110 Physics](#)

[CPCS 120 Physics I](#)

[CPCS 130 Physics II](#)

Project and Workplace Budgets Coordination

Course Series

This program is designed for individuals who wish to acquire the hardcore skill sets to carry out budgeting and coordination of a variety of projects in the workplace. It provides training in high demand skills such as budget creation, cost control, workplace budget management, mobile project management, and project oversight and execution.

Note: Advanced Excell skills will be taught in this program.

Required Course (select 1) —

[CKPM 217 Agile Project Management](#)

[CTEC 210 Fundamentals of Project Management](#)

Course Series Requirements —

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Electives (select 2) —

[CKCS 107 Data Analytics Through Excel](#)

[CKPM 212 Project Cost and Procurement Management](#)

[CKPM 219 Mobile Project Management](#)

Contact Us +

Project Management

Course Series

Learn the skills necessary to become a project management professional. If you are already working as a project manager, upskill and earn professional development units (PDUs) to maintain your professional credentials.

No previous background is required and this course series can be completed entirely online.

This is an **Open Admissions** program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

Required Courses (select 3) —

[CKPM 203 Planning and Scheduling](#)

[CKPM 209 Project Risk and Quality Management](#)

[CKPM 211 Leadership in Project Management](#)

[CKPM 217 Agile Project Management](#)

[CKPM 219 Mobile Project Management](#)

[CTEC 210 Fundamentals of Project Management](#)

Who Should Enrol?

+

Who Teaches the Courses?

+

Industry and Careers

+

Recommended Course Sequence

+

Course Series Requirements

—

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Project Management Foundation: These courses cover the fundamentals of project management, planning and scheduling, and project management systems (Microsoft Project).

[CKPM 203](#), [CKPM 217](#), [CTEC 210](#)

Project Management Practitioner: These courses focus on managing risk and quality, as well as leading teams.

[CKPM 209](#), [CKPM 211](#), [CTEC 210](#)

To cater to entrepreneurial and digital environments,

Agile Project Management:

these courses present agile and emerging trends in project management.

[CKPM 217](#), [CKPM 219](#), [CTEC 210](#)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

+

Contact Us

+

Research Methodologies and Program Evaluation

Course Series

This program offers an introduction to quantitative and qualitative research methodologies from anti-oppression, anti-colonial, and anti-racism perspectives to social work students and community practitioners. Using these perspectives, participants will also acquire the skills necessary to design and evaluate social programs and their own practice.

Required Courses

[CSWP 538 Social Work Research: Part I](#)

[CSWP 638 Social Work Research: Part II](#)

[CSWP 932 Evaluating Social Work Practices](#)

Who Should Enrol? +

Program Design +

Course Series Requirements -

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Retail Buying

Course Series

Students will examine the role of the buyer, the procurement process, and merchandise management. An exploration of in-store design, layout, and display options using space planning software will also be covered.

Course Series Requirements

- Successful completion of 2 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CRMG 400 Buying Process I](#)

[CRMG 452 Visual Merchandising and Space Planning](#)

Electives (select 1)

You may only select one of CRMG 806 or CRMG 909. If you intend to write the Category Management Certification Exam, you should take CRMG 806.

[CRMG 806 Retailer Perspectives on Category Management](#)

[CRMG 909 Advanced Buying Process II](#)

Retail Operations and Sales Management

Course Series

Students will examine a variety of systems relevant to the retail environment through case studies and online discussions. Other topics will include teamwork, employee motivation, retail metrics, and meeting consumers' needs.

Required Courses

[CRMG 301 Retail Operations Management](#)

[CRMG 303 Service Quality Management](#)

[CRMG 911 Retail Sales Management](#)

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Science, Technology, Engineering, and Mathematics (STEM)

Course Series

Gain the knowledge to become a professional in science, technology, engineering, and math (STEM) in the private and public sectors. This could include professions in Information Technology (IT), research positions, entrepreneurship, and more.

If you are already in STEM, this is a chance to upskill your soft transferable skills while gaining in-demand professional skill sets such as: entrepreneurship, innovative venture start-ups management, critical thinking, problem-solving, solution-building and execution, and interpersonal workplace relationship-building skills.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. No previous background is required and this course series can be completed entirely online, depending on your course selection.

This short course series is an excellent complement to the skills you may already possess as a professional.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#)

Required Course

[CDCE 305 Intro to Intercultural Communication](#)

[CDCE 306 Managing Workplace Relationships](#)

[CDCE 307 Wking with Culturally Diverse Clients](#)

[CDCE 308 Cross Cultural Teamwork](#)

[CENT 500 New Venture Startup](#)

[CENT 526 Entrepreneurial Behaviour and Strategy](#)

[CENT 601 Identifying Opportunities](#)

Electives (select 2)

[CBLG 143 Biology I](#)

[CBLG 144 Biology II](#)

[CBLG 151 Microbiology I](#)

[CBLG 699 Social Factors in Drug Development](#)

[CCHY 103 General Chemistry I](#)

[CCHY 183 Introduction to Forensic Sciences](#)

[CCHY 242 Organic Chemistry II](#)

[CCHY 381 Physical Chemistry I](#)

[CCHY 583 Alternative Energies](#)

[CCPS 109 Computer Science I](#)

Next Offered: Spring/Summer 2020

[CCPS 305 Data Structures](#)

Next Offered: Spring/Summer 2020

[CCPS 311 Object Oriented Programming and Design](#)

[CCPS 393 Introduction to UNIX, C and C++](#)

[CKCH 107 General Chemistry Laboratory](#)

[CKCH 113 General Chemistry II](#)

[CKCH 143 Organic Chemistry Laboratory](#)

[CKCH 142 Organic Chemistry I](#)

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Sequence +

Course Series Requirements -

- Successful completion of 1 required course
- Successful completion of 2 electives*

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Emergency Management: [CSCI 232](#), [CSCI 241](#)

Environmental Science Management and Science: [CKES 120](#), [CKES 170](#), [CKES 180](#), [CKES 210](#), [CKES 220](#)


Information Technology: [CCPS 109](#), [CCPS 305](#), [CCPS 311](#), [CCPS 393](#), [CKCS 160](#), [CKCS 230](#), [CKCS 231](#), [CKCS 232](#), [CKCS 234](#), [CDKF 110](#), [CDKF 120](#), [CDKF 130](#), [CDKF 140](#), [CDKF 145](#), [CKRE 110](#), [CKRE 120](#), [CKRE 130](#), [CMTH 304](#), [CMTH 404](#), [CMTH 642](#), [CSCI 130](#), [CSCI 243](#), [CZLW 120](#)

Lean Six Sigma Enterprise Continuity and Excellence and Sustainability: [CKSS 100](#), [CKSS 101](#), [CKSS 210](#), [CKSS 211](#), [CKSS 212](#)

Mathematics: [CMTH 500](#), [CMTH 501](#), [CMTH 600](#), [CMTH 700](#), [CMTH 800](#)

Organization Operations: [CKMT 104](#), [CSCI 232](#)

Science: [CBLG 143](#), [CBLG 144](#), [CBLG 151](#), [CBLG 699](#), [CCHY 103](#), [CCHY 183](#), [CCHY 242](#), [CCHY 381](#), [CCHY 583](#), [CKCH 107](#), [CKCH 113](#), [CKCH 142](#), [CKCH 143](#), [CKCH 216](#), [CKCH 217](#), [CKCH 223](#), [CKCH 224](#), [CKCH 227](#), [CKES 190](#), [CPCS 111](#), [CPCS 120](#), [CPCS 130](#), [CPCS 181](#), [CPCS 182](#), [CPCS 581](#)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us



[CKCH 216 Analytical Chemistry I](#)

[CKCH 217 Analytical Chemistry Laboratory I](#)

[CKCH 223 Analytical Chemistry II](#)

[CKCH 224 Analytical Chemistry Laboratory II](#)

[CKCH 227 Biochemistry Laboratory I](#)

[CKCS 160 CEH and CCE Comp Sec Exam Prep](#)

[CKCS 230 Intro to SOLIDWORKS for 3-D Printing](#)

[CKCS 231 Product 3-D Animation/Rendering](#)

[CKCS 232 3-D Printing: Agile Prototyping](#)

[CKCS 233 Product Design for 3-D Printing](#)

[CKCS 234 Product Drawing for 3-D Printing](#)

[CKDF 110 Computer Network Security](#)

[CKDF 120 Computer Cryptography and Digital Steganography](#)

[CKDF 130 Digital Forensics Systems](#)

[CKDF 140 Security Architecture and Design](#)

[CKDF 145 Certified Information Systems Security Professional \(CISSP\)](#)

[CKES 120 Environmental and Atmospheric Processes](#)

[CKES 170 Water Treatment](#)

[CKES 180 Site Assessment](#)

[CKES 190 Renewable Energy and Green Technology](#)

[CKES 210 Applied Environmental Analysis](#)

[CKES 220 Environmental Law and Practice](#)

[CKMT 104 FRM Level I Exam Prep](#)

[CKRE 110 Digital Logic and Hardware Architecture](#)

[CKRE 120 Programming Robotics Systems](#)

[CKRE 130 Embedded Systems Hardware Architecture and Implementation](#)

[CKSS 100 Fundamentals in Sustainability I](#)

[CKSS 101 Fundamentals in Sustainability II](#)

[CKSS 210 Lean Six Sigma Contin](#)

[CKSS 211 Lean Six Sigma Sust
Bus Enterprise](#)

[CKSS 212 Lean Six Sigma Quality
Assurance](#)

[CMTH 304 Probability and
Statistics I](#)

[CMTH 404 Probability and
Statistics II](#)

[CMTH 500 Introduction to
Stochastic Processes](#)

Next Offered:Spring/Summer 2020

[CMTH 501 Numerical Analysis I](#)

[CMTH 600 Computational
Methods In Mathematics](#)

[CMTH 642 Data Analytics:
Advanced Methods](#)

Next Offered:Spring/Summer 2020

[CMTH 700 Financial Mathematics
I](#)

[CMTH 800 Financial Mathematics
II](#)

[CPCS 111 Physics in the News](#)

[CPCS 120 Physics I](#)

[CPCS 130 Physics II](#)

[CPCS 181 Introduction to
Astronomy](#)

Next Offered:Spring/Summer 2020

[CPCS 182 Life in the Milky Way
Galaxy](#)

[CPCS 581 Advanced Topics in
Astronomy](#)

[CSCI 130 Mobile Robotic Devices
Embedded Systems](#)

[CSCI 230 Emergency
Management Practice](#)

[CSCI 232 Incident and Operations
Management](#)

[CSCI 234 Analysis of Critical
Incidents](#)

[CSCI 241 Planning for Emergency
Management](#)

[CSCI 243 Continuity and Risk
Management](#)

[CZLW 120 Law for Forensics
Professionals](#)

Scientific Research Policy and Ethics

Course Series

Learn to analyze and assess government science policy, drug development regulation, clinical trials practice, scientific project oversight, intellectual property, and/or the scientific and medical ethics required in order to advance to a professional leadership position.

No previous background is required.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

Required Courses (select 3) —

[CBLG 605 Science and Government Policy Development](#)

[CBLG 606 Intro to Clinical Research and Trials](#)

[CBLG 607 Intellectual Property in Science](#)

[CIND 123 Data Analytics: Basic Methods](#)

Next Offered: Spring/Summer 2020

[CKBG 120 Drug Development Regulations](#)

[CKBG 135 Pharma Project Best Practices](#)

[CPHL 509 Bioethics](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Social Media Marketing

Course Series

Marketing communications is in a state of transformation. This program is for students who want to learn more about how marketers can incorporate social media into their marketing plans and measure its impact; it integrates marketing metrics, marketing communications, and consumer behaviour.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

[CMKT 300 Marketing Metrics and Analysis](#)

[CMKT 400 Understanding Consumers and the New Media](#)

[CMKT 510 Innovations in Marketing](#)

Social Media Practices and Reputation Management

Course Series

A social media presence enables senior management to share their perspectives with wider audiences, both external and internal, and garner reputational benefits from being online. Preparation for social media participation includes identifying the goals of social participation, selecting the right social platform, minimizing the risk of participation, and guiding the social conversation.

Want to find out more or ask a question about the **Course Series in Social Media Practices and Reputation Management?** Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

[CDPR 100 Public Relations Principles](#)

[CDPR 108 Social Media in Public Relations](#)

[CDPR 110 Reputation Management](#)


Next Offered: Spring/Summer 2020

This course series offers the following benefits:

- Enrol right away – open admissions with no application required
- Complete from wherever you are through a fully online format
- Take Ryerson degree-credit courses
- Use these courses towards the [Certificate in Public Relations](#)
- Earn a Professional Development Award on successful completion of all courses
- Apply for merit-based awards

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Sports Marketing

Course Series

This program is for students who wish to build an understanding in the sports marketing industry. While equipping students with metrics and analytical tools to effectively analyze the sport market, the program also adopts an applied approach of marketing theories and principles in the sports industry. Topics covered will include national and/or international sports sponsorship, branding, promotional events, media distribution, and financial management.

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Required Courses

You may only select one of CMKT 504 or CMKT 829.

[CMKT 300 Marketing Metrics and Analysis](#)

[CMKT 504 Effective Persuasion](#)

[CMKT 828 Sport Marketing Concepts and Strategy](#)

[CMKT 829 International Sport Marketing](#)

Survival in Urban Disasters and Emergencies

Course Series

No previous background is required.

Learn what it takes to survive challenges in unforeseen situations with limited or non-existent support systems. This includes planning for urban survival, navigating by day/night, avoiding hazards and threats, implementing a psychology of survival, and engaging in recovery-on-the-ground techniques. You will learn to operationalize long-term survival strategies like finding/building expedient shelters, and ensuring access to necessities like water, fire, heat, light and food. Learn the fundamentals of safety, security and protection.

This is an Open Admissions program. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

Required Courses (select 3) —

[CSCI 230 Emergency Management Practice](#)

[CSCI 232 Incident and Operations Management](#)

[CSCI 234 Analysis of Critical Incidents](#)

[CSCI 243 Continuity and Risk Management](#)

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) [↗](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate +

Contact Us +

The Human Body

Course Series

Adults are increasingly aware of their need to learn how to transform their habits and lifestyles based on scientific evidence and to meet the health requirements of their age and health situations. This course series will provide opportunities for adults to learn about the human body and impacts to its health, including the biology- and chemistry-based science of food.

Learning about the human body requires space, time, and informed educators to provide current science and guide group discussions. Ryerson University's Biology and Chemistry faculty deliver the science content and subject matter experts provide a synthesis of the content with current scientific findings, while also ensuring a high level of engagement and participation in group discussions.

Each course in the series will explore the science of the human body and how one can use food science to make informed and healthy choices as he or she progresses through life. The courses will provide students with the knowledge and skill sets helpful in gaining or enhancing critical understanding of the human body.

Program Design +

Learning Outcomes +

Who Should Enrol? +

Admission and Registration +

Course Series Requirements -

- Successful completion of 4 required courses

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Contact Us +

Required Courses -

CBLG 10A is a multi-term course. 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.

[CBLG 10A Anatomy and Physiology-A](#)

[CKBG 100 Human Body Health Tools](#)

[CKBG 110 The Science of Food Foundations](#)

[CKBG 115 The Science of Supplements](#)

The Internet of Things (IoT)

Course Series

This program explores the technologies, architectures, and strategies for the streaming of IoT and how “always-on” data streams are managed, scaled, secured, and monetized around services, and solutions, and specifically on future connected cars, SMART cities, wearables, SMART home architectures and the Cloud, IoT analytics, IoT Open Source, connected virtual and augmented reality. Topics include emerging IoT technologies and monetization and value creation of IoT for economic prosperity and the social good.

No previous background is required.

In this course series you will learn how to operationalize technologies and strategies for the streaming of the Internet of Things (IoT). You will learn about how “always-on” data streams are managed, scaled, secured, and monetized around services, and solutions. This course series has applications in future and current technology industries including driverless cars and vehicles, smart cities, wearables and home architectures.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education

Required Courses

[CKCS 180 IoT 360 Connectivity to the World](#)

[CKCS 181 Emerging IoT Technologies](#)

[CKCS 182 IoT Monetization and Value Creation](#)

What Will You Learn?

+

Who Teaches the Courses?

+

Who Should Enrol?

+

Industry and Careers

+

Recommended Sequence

+

Course Series Requirements

—

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

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Toy Invention

Course Series

Toy invention course series



Required Courses

[CDTI 100 Principles of Toy Invention](#)

[CDTI 110 Toy Prototyping](#)

[CDTI 120 The Business Side of Toys - Talk Series](#)

[CDTI 130 Toy Lab](#)

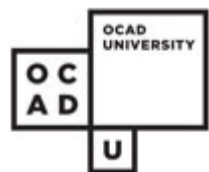
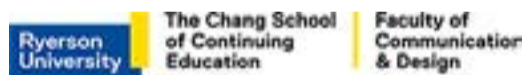
Bring your imagination! We'll teach you the rest. Ryerson University's Faculty of Communication and Design (FCAD) and The Chang School have joined forces with Spin Master, Shenkar College of Engineering, Design and Art, and OCAD University to offer the Course Series in Toy Invention, the first program of its kind in Canada. This unique learning opportunity will give creative individuals with a passion for toy invention the knowledge and skills needed to enter the professional toy market.

This course series offers the following benefits:

- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Ready to apply? Check out the guidelines in our "How to Apply" section and find out how.

In collaboration with:



Classes for the Course Series in Toy Invention will be hosted by the [Ryerson University Library Collaboratory](#) and FCAD's Creative Technology Lab.

Want to learn more about the Course Series in Toy Invention? [Express interest to receive updates](#) [↗](#), or find out what you need to know in our information video.

The Chang School's Course Series in Toy Invention: What You Need To k



Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

What Will You Learn? +

Who Should Enrol? +

Who Teaches the Courses? +

Course Series Requirements -

- Successful completion of 4 required courses

This course series is cohort-based; all participants will move through the completion of the four required courses as a group. You should be prepared to commit to completing the entire course series, which will take place over one academic year (Fall and Winter terms). [CDTI 100](#) and [CDTI 110](#) will take place in the Fall term, and [CDTI 120](#) and [CDTI 130](#) will take place in the Winter term.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.



How To Apply +

Our Partners +

Toy Invention in the News +

Contact Us +

Urban Agriculture

Course Series

In order to help students develop their skills and capacity to address global problems, specifically those related to the current global food crisis and climate change, an urban agriculture course series has been developed as part of the elective offerings of The Chang School's Certificate in Food Security.

Students who complete this course series will gain in-depth knowledge of the technical aspects of urban agriculture as well as the policy dimensions and governance issues that must be taken into account in the development of effective urban agriculture systems.

This course series can be completed entirely online.

Required Courses

[CVFN 410 Understanding Urban Agriculture](#)

[CVFN 411 Dimensions of Urban Agriculture](#)

[CVFN 412 Urban Agriculture Types](#)

[CVFN 413 Urban Agriculture Policy-Making](#)

Course Series Requirements

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#) with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate

Contact Us

Additional Details

Virtual Reality (VR) and Augmented Reality (AR) Developer for Smartphones

Course Series

Develop Augmented Reality (AR) and Virtual Reality (VR) apps and experiences for Android and iPhone, the two most popular and prominent mobile development platforms. You will have the opportunity to acquire the hands-on technical skills necessary to work in the VR and AR wearables industry – currently dominated by juggernauts like Google, Apple, Samsung, Microsoft, Facebook, HTC, and Disney. You will also have the opportunity to master 3D Unity and learn (or upskill in) C# programming for Android and iPhone AR and VR app development.

No previous background is required.

This program takes place in a computer lab and all AR and VR equipment is provided except for smartphones (bring your own).

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this two-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Not ready to enrol but want to learn more?

Fill out this form and a representative from The Chang School will contact you.

[Express interest](#) 

Required Courses

[CKCS 122 VR Developer for Smartphones](#)

[CKCS 123 AR Developer for Smartphones](#)

What Will You Learn?


Who Teaches the Courses?

Industry and Careers

Recommended Sequence

Course Series Requirements

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Website Design

Course Series

This program provides in-depth, practical, and theoretical information needed to design websites that effectively communicate and encourage interaction.

This course series offers the following benefits:

- Enrol right away – open admissions with no application required
- Take courses in any order – no prerequisites needed
- Take a mix of online and in-class courses
- Take Ryerson degree-credit courses
- Earn a Professional Development Award on successful completion of all courses
- Use applicable courses towards the [Certificate in Digital Art Production](#)
- Apply for merit-based awards

Want to find out more or ask a question about the **Course Series in Website Design**? Express interest to connect with this program and receive updates.

[Express interest](#) 

Required Courses

[CEID 100 Digital Skills: Int'l Innovation](#)

Next Offered: Spring/Summer 2020


[CFPN 534 Graphic Design](#)

[CFPN 535 Interaction Design](#)

[CFPN 542 Design for Mobile Devices](#)

Course Series Requirements

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award \(PDA\) form](#)  with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us

Workplace Communication in Canada (WCC)

Course Series

The Chang School's Workplace Communication in Canada (WCC) Program



Required Courses (select 4) —

[CDCE 700 Effective Speaking and Listening](#)

[CDCE 710 Intro to Interpersonal Communic.](#)

[CDCE 720 Client-Centred Communication](#)

[CDCE 730 Presenting with Impact](#)

[CDCE 740 Teamwork Communication](#)

Established in 2007, the Workplace Communication in Canada (WCC) Program provides exceptional intercultural communication and soft skills training. The WCC program helps professionals in the Canadian workplace to enhance awareness and understanding of cultural differences in communication. This can result in better utilization of diverse talent and increased productivity for today's global workplace.

The program's goal is to maximize the employability and leverage preparedness for professional bridging programs of internationally educated professionals by implementing the following:

- a competency-based curriculum (using detailed performance indicators)
- a workplace-focused curriculum (materials developed in partnership with pan-professional and subject-matter experts)
- an experiential curriculum (using role plays, simulations with actors, workplace scenarios, debate clubs, and group work)

What Will You Learn? +

Course Series Requirements —

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the Workplace Communication in Canada (WCC) program at wcc@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Contact Us +

Workplace Mental Health in Healthcare Settings

Course Series

This course series provides supervisors, managers, and directors the knowledge and understanding to manage the stress of frontline workers in healthcare settings. You will first explore the causes and impacts of on-the-job mental distress and post-traumatic stress disorder (PTSD), while learning about coping strategies and responsibilities of employers.

Next, leading practices to manage the spectrum of good psychological health and safety in the workplace will be exposed, using peer-to-peer learning opportunities that identify programs and services to support workers, as well as hands-on resources and learning plans.

Required Courses

[CVOH 110 Promote Frontline Worker Mental Health](#)

[CVOH 115 Support Frontline Worker Mental Health](#)

Course Series Requirements

- Successful completion of 2 required courses

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Contact Us