

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](#)

[View by Areas of Study](#)
[View Alphabetically](#)

Aboriginal Knowledges and Experiences	Community Engagement, Leadership, and Development	Ethics
Accounting – Finance	Computer Programming Applications	Facility and Property Management
Advanced Accounting	Crime Analytics	Fashion Coordination and Styling
Advanced Applied Digital Geography and GIS	Criminal Justice and Criminology	Film Studies
Advanced Architecture	Cybersecurity, Data Protection and Digital Forensics	Financial Mathematics Modeling and Predictive Analytics
Advanced Enterprise Architecture and Infrastructure Management	Data Analytics, Big Data, and Predictive Analytics	Financial Planning
Advanced International Trade Management	Demographic Analysis	Food Security
Advanced Nursing Leadership and Management	Design Management	Foundations of International Management
Advanced Safety Management	Design for Arts and Entertainment	Fundamentals of Interior Design
Aging and Gerontology	Digital Art Production	Fundraising Management
Applied Digital Geography and GIS	Economics and Finance	Graphic Communications
Architecture	Economics: Fundamentals	Health Informatics
Business Communication	Economics: Theory and Applications	Health Services Management
Business Decision Analysis	Emergency Management and Response Planning	Health Studies
Business French and Translation	Energy Management and Conservation	Human Resources Management
Business Management	English Literature and Popular Culture	Image Arts (with specializations in Film Studies or Photography Studies)
Canadian Dietetic Knowledge Competencies	Entering Foreign Markets	Information Systems Management
Canadian Social Work Practice	Entrepreneurship and Small Business	Introduction to Community Services
Caribbean Studies		Landscape Design

business

Leadership in Organizations

Level 1 Public Administration and Governance

Level 2 Public Administration and Governance

Lighting Design

Local Economic Development

Media Writing Fundamentals

Mental Health and Addictions

Music: Global and Cultural Contexts

News Studies

Nonprofit and Voluntary Sector Management

Nursing and Interprofessional Healthcare Leadership and Management

Occupational Health and Safety

Occupational Health and Safety Leadership

Photography Studies

Practical Data Science and Machine Learning

Privacy, Access, and Information Management

Proficiency in French

Proficiency in Spanish

Project Management

Project Management for Technical Professionals

Psychology

Public Administration and Leadership

Public Relations

Publishing

Retail Management

Robotics and Embedded Systems

Social Sciences and Humanities Foundations

Strategic Marketing Management

Sustainability Management and Enterprise Process Excellence

Urban Agriculture

Aboriginal Knowledges and Experiences

Certificate

[Register now](#)

FULLY ONLINE



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.

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](#)

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** +

Required Courses

[CINT 922 Intro to Aboriginal Worldviews](#)

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

Next Offered: Spring/Summer 2021

Electives (select 4)

[CCLD 450 Indigenous Early Learning](#)

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

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

Next Offered: Spring/Summer 2021

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

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

[CINT 910 Aboriginal Peoples, Pol. and Reconciliation](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

Certificate Requirements



- 2 required courses*
- 4 electives
- 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

[Register now](#)

FULLY ONLINE



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)

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Accounting - Finance has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

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

[CACC 110 Financial Accounting](#)

Next Offered: Spring/Summer 2021

[CACC 410 Management Accounting](#)

Next Offered: Spring/Summer 2021

[CACC 414 Intermediate Accounting I](#)

Next Offered: Spring/Summer 2021

[CACC 514 Intermediate Accounting II](#)

Next Offered: Spring/Summer 2021

[CFIN 300 Managerial Finance I](#)

Next Offered: Spring/Summer 2021

[CFIN 401 Managerial Finance II](#)

Next Offered: Spring/Summer 2021

Electives (select 2)

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

[CACC 521 Auditing](#)

Next Offered: Spring/Summer 2021

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

[CFIN 502 Personal Financial Planning](#)

Next Offered: Spring/Summer 2021

[CITM 102 Business Information Systems I](#)

Next Offered: Spring/Summer 2021

[CLAW 122 Business Law](#)

Next Offered: Spring/Summer 2021

[CQMS 210 Applied Statistics for Business](#)

Next Offered: Spring/Summer 2021

What Will You Learn? +

Who Should Take This Certificate? +

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

[Register now](#)



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.

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](#)

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 +

Required Courses

[CACC 703 Advanced Financial Accounting](#)

[CACC 742 Canadian Business Taxation I](#)

Next Offered: Spring/Summer 2021

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

[CACC 842 Canadian Business Taxation II](#)

[CITM 696 Accounting Information Systems](#)

Next Offered: Spring/Summer 2021

[CLAW 603 Advanced Business Law](#)

Next Offered: Spring/Summer 2021

Frequently Asked Questions



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



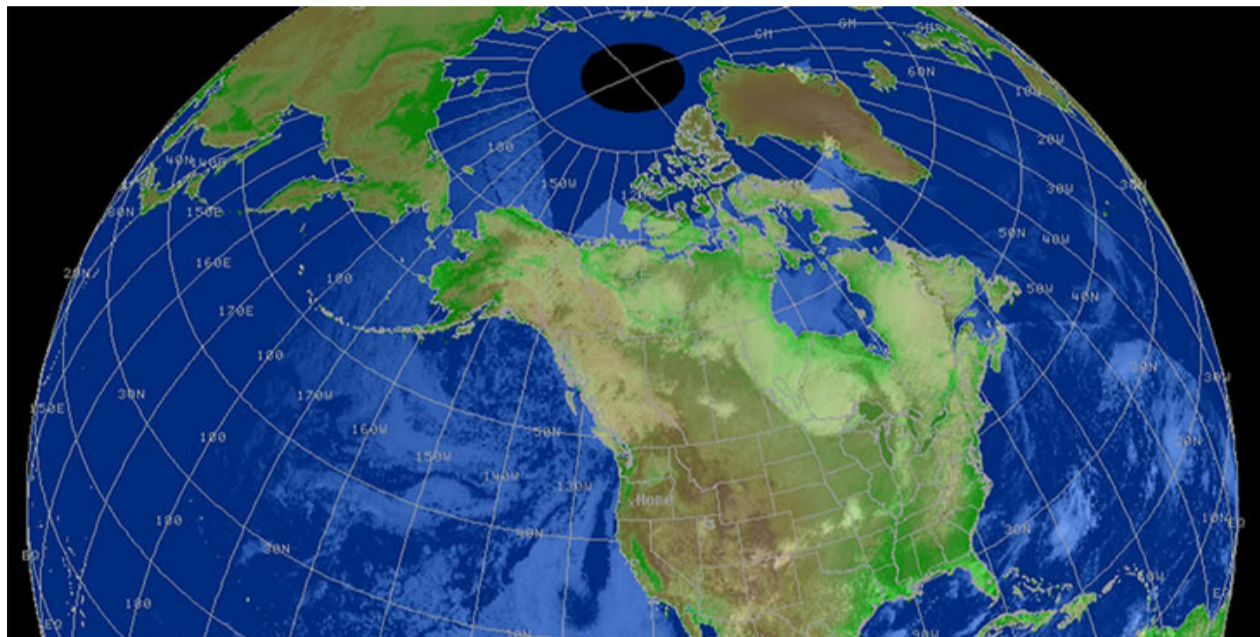
Contact Us



Advanced Applied Digital Geography and GIS

Certificate

[Register now](#)



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.

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 – First Level

[CODG 210 Spatial Database Management Systems](#)

[CODG 211 Advanced GIS Programming](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

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+

*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

[Register now](#)



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 fulfils 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.

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

Required Courses



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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKAR 500 Sustainable Buildings](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

Electives (select 2)



[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

[CKAR 203 Specifications and Contractual Documents](#)

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

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

Next Offered: Spring/Summer 2021

[CKPM 214 Project Development and Control](#)

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

application deadlines (refer to [Important Dates](#)). Visit [Graduation](#) for details.

Admission Criteria

—

Required:

- [Certificate in Architecture](#)

OR

- Equivalent academic qualifications and relevant work experience

Awards and Financial Aid

+

Frequently Asked Questions

+

Contact Us

+

Advanced Enterprise Architecture and Infrastructure Management

Register now

Certificate

Hot Careers Spotlight: The Enterprise Architect



Required Courses

[CITM 410 Business Process Design](#)

Next Offered: Spring/Summer 2021

[CITM 706 Enterprise Architecture](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

Electives (select 1)

[CITM 330 Supply Chain Process Architecture](#)

Next Offered: Spring/Summer 2021

[CITM 600 Data Communications Network Design](#)

Next Offered: Spring/Summer 2021

[CITM 711 Cloud Computing](#)

Next Offered: Spring/Summer 2021

[CITM 750 IS Project Management](#)

Next Offered: Spring/Summer 2021

"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

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

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

[Register now](#)

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](#)

Next Offered: Spring/Summer 2021

[CGMS 724 Management of International Enterprise](#)

Next Offered: Spring/Summer 2021

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

Electives (select 2)

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CGMS 400 The Global Business Environment](#)

[CGMS 450 Project Management](#)

[CLAW 122 Business Law](#)

Next Offered: Spring/Summer 2021

[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 —

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 +

Contact Us +

Advanced Nursing Leadership and Management

Certificate

[Register now](#) ➔

FULLY ONLINE

The Certificate in Advanced Nursing Leadership and Management will not be accepting any new registrants. The certificate has been discontinued effective Fall 2020. Students formally registered in the certificate prior to July 1, 2020 must complete the program requirements in effect at the time they registered.

Students are welcome to enrol in the new [Nursing and Interprofessional Healthcare Leadership and Management](#) certificate, starting in Fall 2020.

For curriculum details, please refer to the [archived calendar](#) for your year of registration.

For further information, please contact Jouanna Labib, Student Affairs/Program Advisor. Email: jlabib@ryerson.ca

Required Courses

[CVNU 360 Advanced Leadership and Management](#)

[CVNU 370 Change and Innovation](#)

Electives – Group A: Program Planning and Evaluation (select 1)

[CHSM 408 Program Planning and Evaluation](#)

Next Offered: Spring/Summer 2021

[CINP 902 Evaluation for Nonprofits](#)

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

Next Offered: Spring/Summer 2021

[CPPA 402 Program Planning and Evaluation](#)

Electives – Group B: Leadership (select 1 or 2)

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CINT 911 International Community Development](#)

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

Next Offered: Spring/Summer 2021

Electives – Group C: Management (select 1 or 2)

[CHIM 300 Managing Health Information Services](#)

[CHSM 301 The Healthcare Systems](#)

[Systems](#)

Next Offered:Spring/Summer 2021

[CHSM 305 The Management Cycle](#)

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

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

[CINP 915 Financial Management for Nonprofits](#)

Next Offered:Spring/Summer 2021

[CINT 920 Community Collaborations](#)

Next Offered:Spring/Summer 2021

[CKPM 203 Planning and Scheduling](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CLAW 326 Law for Health Managers](#)

[CMHR 650 Management of Change](#)

Next Offered:Spring/Summer 2021

[CMHR 721 Negotiation and Conflict Resolution](#)

Next Offered:Spring/Summer 2021

[CMHR 841 Organization Theory and Design](#)

[CSWP 934 Community Engagement Foundations](#)

Next Offered:Spring/Summer 2021

[CSWP 936 Community Engagement Practices](#)

Next Offered:Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered:Spring/Summer 2021

[CVNU 321 Financial Management](#)

Advanced Safety Management

Certificate

[Register now](#)

FULLY ONLINE



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).

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

[COHS 323 Accident Theory](#)

[COHS 516 Ergonomics](#)

Next Offered: Spring/Summer 2021

[COHS 523 Safety Evaluation Techniques](#)

[COHS 623 Safety Control Methods](#)

Next Offered: Spring/Summer 2021

[COHS 709 Fire and Radiation Safety](#)

[COHS 800 Sectoral Applications](#)

Electives (select 2)

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

Next Offered: Spring/Summer 2021

[CINT 902 Disability Issues](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

Occupational Health and Safety Certificates



Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Advanced Safety Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

What Will You Learn? +

Industry and Careers +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Professional Designations and Accreditation +

Testimonials +

Certificate Requirements -

- 6 required courses
- 2 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 -

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

[Register now](#)

FULLY ONLINE



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.

The program can be completed entirely online and is the recipient of the 2020 CAUCE Award for Credit Programming over 48 Hours.

Dean Hepburn introduces Holly Lemme, The Chang School's Ryerson Gold Medal recipient. She discusses her experience in the Certificate in Aging and Gerontology.

[Watch the video now!](#)

Required Courses

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CINT 940 Mobilizing Research for Change](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CINT 945 Technology and Aging Populations](#)

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

Next Offered: Spring/Summer 2021

Ryerson Gold Medal Winner Video



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

[Register now](#)

FULLY ONLINE



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.

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

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[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



Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

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.

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

Next Offered:Spring/Summer 2021

[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](#)

Next Offered:Spring/Summer 2021

[CODG 212 Spatial Statistical Methods](#)

[CODG 213 Internet GIS](#)

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



Architecture

Certificate

[Register now](#)



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.

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Architecture has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

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](#)

Next Offered: Spring/Summer 2021

[CKAR 205 Building Codes and Regulations](#)

[CKAR 300 Architectural Drawing](#)

Next Offered: Spring/Summer 2021

[CKAR 310 Materials and Methods](#)

Next Offered: Spring/Summer 2021

Electives (select 2)

[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

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

[CKAR 500 Sustainable Buildings](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

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 **+**

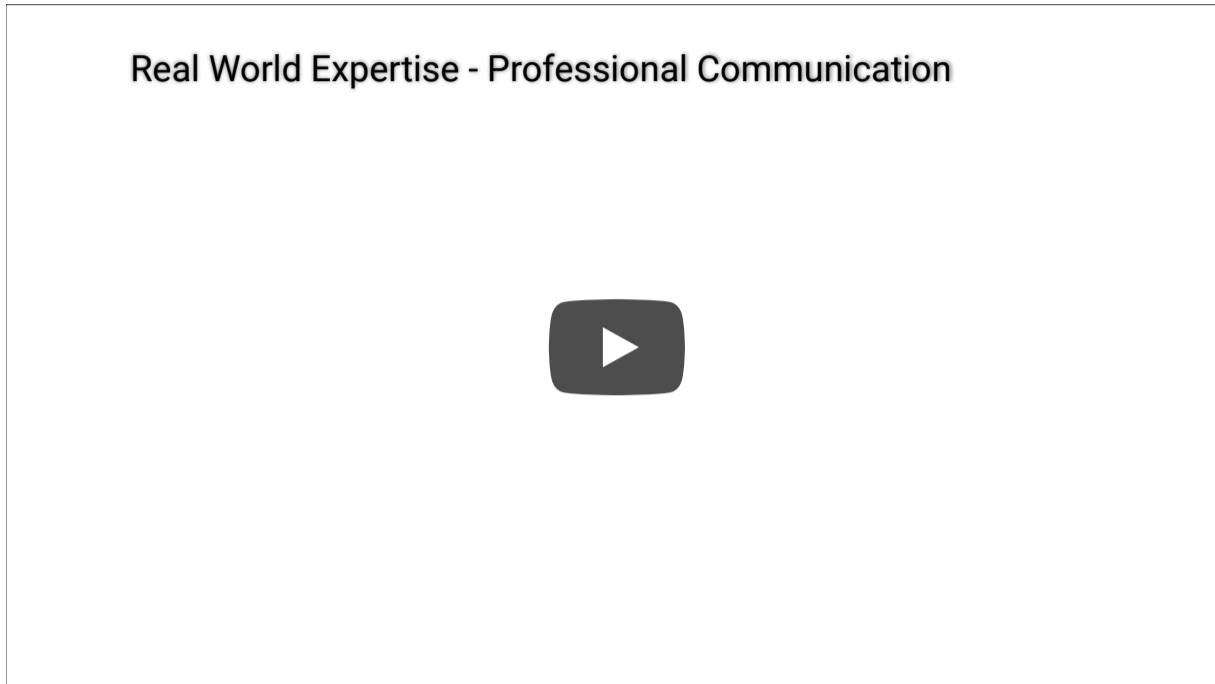
Frequently Asked Questions **+**

Contact Us **+**

Business Communication

Certificate

[Register now](#)



Required Courses

[CCMN 279 Introduction to Professional Communication](#)

Next Offered: Spring/Summer 2021

[CCMN 313 Organizational Report Writing](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CCMN 315 Issues in Organizational Communication](#)

[CCMN 447 Communication and Law](#)

[CDCM 300 Communicating in Virtual Environments](#)

[CDCM 415 Promotional Communications](#)

[CFRE 502 Communication and Business French](#)

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.

Want to find out more about the **Certificate in Business Communication?** Express interest to connect with this program and receive updates.

[Express interest](#)

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 Ryerson degree-credit courses**
- **Apply for merit-based awards**

What Will You Learn? +

Who Should Take This Certificate? +

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



Why Register for the Certificate?



Contact Us



Business Decision Analysis

Certificate

[Register now](#)



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.

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 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)

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Business Decision Analysis has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

Required Courses

[CQMS 210 Applied Statistics for Business](#)

Next Offered: Spring/Summer 2021

Electives (select 4)

[CQMS 422 Quality Management](#)

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

Next Offered: Spring/Summer 2021

[CITM 501 Prescriptive Analytics and Simulation](#)

[CQMS 442 Multiple Regression for Business](#)

Next Offered: Spring/Summer 2021

[CQMS 521 Business Optimization](#)

[CQMS 703 Business Forecasting Techniques](#)

Next Offered: Spring/Summer 2021

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Testimonial +

Frequently Asked Questions +

Certificate Requirements -

- 1 required course
- 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

[Register now](#)

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.

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

[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

[Register now](#)

FULLY ONLINE



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:

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

[Contact us to learn more](#)

- Accounting
- Applied Statistics for Business
- Business Law
- 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

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Business Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

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.

[CACC 100 Introductory Financial Accounting](#)

Next Offered: Spring/Summer 2021

[CACC 110 Financial Accounting](#)

Next Offered: Spring/Summer 2021

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CGMS 200 Introduction to Global Management](#)

Next Offered: Spring/Summer 2021

[CITM 100 Foundations of Information Systems](#)

[CITM 102 Business Information Systems I](#)

Next Offered: Spring/Summer 2021

[CLAW 122 Business Law](#)

Next Offered: Spring/Summer 2021

[CMHR 523 Human Resources Management](#)

Next Offered: Spring/Summer 2021

[CMKT 100 Principles of Marketing](#)

Next Offered: Spring/Summer 2021

[CQMS 110 Applied Mathematics for Business](#)

Next Offered: Spring/Summer 2021

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

[Register now](#)

Certificate



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 \(CDRE\)](#).

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](#)

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:

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](#)

Tuition and Awards and Financial Aid	+
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

[Register now](#)



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.

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

[CCRB 100 Introduction to the Caribbean](#)

Next Offered: Spring/Summer 2021

Electives (select 5)

[CCRB 500 Families in the Caribbean](#)

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CSPN 804 Latin American Culture II](#)

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

Next Offered: Spring/Summer 2021

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

[Register now](#)

FULLY ONLINE

Community Engagement, Leadership, and Development Webinar



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

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

[CSWP 934 Community Engagement Foundations](#)
Next Offered: Spring/Summer 2021

[CSWP 935 Engaging Diverse Communities](#)
Next Offered: Spring/Summer 2021

[CSWP 936 Community Engagement Practices](#)
Next Offered: Spring/Summer 2021

[CSWP 937 Community Engagement Capstone](#)
Next Offered: Spring/Summer 2021

Electives (select 2)

[CFNY 407 Community Development and Food Security](#)
Next Offered: Spring/Summer 2021

[CINP 913 Leadership in Nonprofits](#)
Next Offered: Spring/Summer 2021

[CINT 900 Program Planning and Evaluation Strategies](#)
Next Offered: Spring/Summer 2021

[CINT 902 Disability Issues](#)
Next Offered: Spring/Summer 2021

[CINT 904 Health Promotion and Community Development](#)
Next Offered: Spring/Summer 2021

[CINT 905 Conflict Resolution in Community Services](#)
Next Offered: Spring/Summer 2021

[CINT 907 Team Work for Community Services](#)
Next Offered: Spring/Summer 2021

[CINT 908 Homelessness in Canadian Society](#)
Next Offered: Spring/Summer 2021

[CINT 910 Aboriginal Peoples, Pol. and Reconciliation](#)
Next Offered: Spring/Summer 2021

[CINT 911 International Community Development](#)

[CINT 914 Settlement Experiences](#)

[CINT 914 Settlement Experiences](#)

Next Offered:Spring/Summer 202

[CINT 916 Introduction to Fundraising](#)

Next Offered:Spring/Summer 2021

[CINT 920 Community Collaborations](#)

Next Offered:Spring/Summer 2021

[CINT 922 Intro to Aboriginal Worldviews](#)**[CINT 960 Leadership Framework for Community](#)****[CPLE 795 Local Economic Development Fundamentals](#)****[CSWP 505 Critical Equity and Movements of Resistance](#)****[CSWP 900 Race and Ethnicity](#)****[CSWP 933 Indigenous Health and Well Being](#)****[CTEC 210 Fundamentals of Project Management](#)**

Next Offered:Spring/Summer 2021

[CVFS 401 Contemporary Family Issues](#)

Next Offered:Spring/Summer 2021

[CVFS 403 Family Supports Theory and Practice](#)

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Community Engagement, Leadership and Development has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

What Will You Learn?**+****Who Teaches the Courses?****+****Who Should Take This Certificate?****+****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:**

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

OR

- Mature student status with relevant work experience

Experiential Learning**+****Awards and Financial Aid****+****Frequently Asked Questions****+****Testimonials****+****Contact Us****+**

Computer Programming Applications

Certificate

[Register now](#)



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 six application areas:

- Artificial Intelligence (AI)
- Computational Methods
- Database Technology
- Networking
- Project Management
- Software Engineering

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 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.

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Computer Programming Applications has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration

- What Will You Learn?** +
- Who Should Take This Certificate?** +
- Who Teaches the Courses?** +
- Industry and Careers** +
- Certificate Requirements** -

Required Courses

[CCPS 109 Computer Science I](#)

Next Offered: Spring/Summer 2021

[CCPS 209 Computer Science II](#)

Next Offered: Spring/Summer 2021

[CCPS 305 Data Structures](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

Electives (select 2)

[CCPS 270 Data Access and Management](#)

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

[CCPS 420 Discrete Structures](#)

Next Offered: Spring/Summer 2021

[CCPS 506 Comparative Programming Languages](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CCPS 721 Artificial Intelligence I](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

- 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 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.

Awards and Financial Aid **+**

Frequently Asked Questions **+**

Contact Us **+**

Crime Analytics

Certificate

[Register now](#)



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.

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](#)



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

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

Required Courses

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CODC 911 Crime Analytics Project](#)

Electives (select 1)

[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2021

[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 2021

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

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 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

—

[CCRM 100](#), [CODG 101](#), and [CODG 102](#) have no prerequisites. You can begin with any one of these courses or take them concurrently depending on your schedule.

[CODC 910](#) must be taken after CODG 101 and CODG 102.

[CODC 911](#) is a capstone course and should be taken as the final course in your certificate.

Note: The elective may be taken at any point in the sequence.

Admission Criteria

+

Awards and Financial Aid

+

Contact Us

+

Criminal Justice and Criminology

Certificate

[Register now](#)



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.

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

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

Next Offered: Spring/Summer 2021

[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2021

[CPSY 602 Developmental Psychopathology](#)

[CSOC 500 Youth and Society](#)

[CSOC 502 Violence and the Family](#)

Next Offered: Spring/Summer 2021

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.

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 +

Cybersecurity, Data Protection and Digital Forensics

Register now

Certificate

FULLY ONLINE

The Chang School Certificate in Computer Security and Digital For...



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.

Attend Our Webinar

Date: Friday, April 9, 2021

Time: 12:00 p.m.–1:00 p.m. EST

RSVP

Required Courses

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

[CKDF 110 Computer Network Security](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKDF 130 Digital Forensics Systems](#)

Next Offered: Spring/Summer 2021

[CKDF 140 Security Architecture and Design](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKDF 150 Digital Forensics Investigation](#)

Next Offered: Spring/Summer 2021

[CSCI 243 Continuity and Risk Management](#)

Next Offered: Spring/Summer 2021

[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 +

Data Analytics, Big Data, and Predictive Analytics

[Register now](#)

Certificate

FULLY ONLINE

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.

Attend Our Webinar

Date: Friday, April 9, 2021

Time: 12:00 p.m.–1:00 p.m. EST

[RSVP](#)

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](#)

Next Offered: Spring/Summer 2021

[CIND 119 Introduction to Big Data](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CIND 820 Big Data Analytics Project](#)

Next Offered: Spring/Summer 2021

[CIND 830 Python Programming for Data Science](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

The Chang School Certificate in Data Analytics, Big Data, and Pre...



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 —

Design for Arts and Entertainment

Certificate

[Register now](#)



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.

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

[Express interest](#)

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+

Required Courses -

[CDID 150 Design Theory](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CDFP 391 History of Photography I](#)

Next Offered: Spring/Summer 2021

[CDID 552 Entertainment Lighting Design](#)

[CDMP 120 Film History](#)

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

Next Offered: Spring/Summer 2021

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

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

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

Next Offered: Spring/Summer 2021

[CRTA 180 Music and Film](#)

Next Offered: Spring/Summer 2021

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? **+**

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

[Register now](#)



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.

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

[Express interest](#)

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

- What Will You Learn?** +
- Who Should Take This Certificate?** +
- Who Teaches the Courses?** +
- Industry and Careers** +
- Certificate Requirements** -

Required Courses

[CDDM 101 Introduction to Design Management](#)

[CDDM 102 Design Management II](#)
Next Offered: Spring/Summer 2021

[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](#)
Next Offered: Spring/Summer 2021

[CENT 500 New Venture Startup](#)
Next Offered: Spring/Summer 2021

[CGCM 110 Introduction to Graphic Communications](#)
Next Offered: Spring/Summer 2021

[CITM 100 Foundations of Information Systems](#)

[CMHR 405 Organizational Behaviour](#)
Next Offered: Spring/Summer 2021

[CMKT 100 Principles of Marketing](#)
Next Offered: Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)
Next Offered: Spring/Summer 2021

- 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

[Register now](#)

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).

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

[Express interest](#)

Online learning during the COVID-19 pandemic

We offer a full range of online courses for the Certificate in Digital Art Production, which provide high-quality, professional-level training. Our courses are developed and taught by industry professionals with the support of online learning specialists at The Chang School. (**Note:** Our online courses are not “virtualized” classroom courses.)

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**

Required Courses

[CMPC 101 Visual Studies I](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

Electives (select 4)

[CDMP 125 Fiction Screenwriting](#)

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

Next Offered: Spring/Summer 2021

[CFPN 534 Graphic Design](#)

[CFPN 535 User Experience Design](#)

Next Offered: Spring/Summer 2021

[CFPN 537 Immersive Imaging](#)

[CFPN 539 The Human Figure](#)

[CFPN 541 Digital Animation Concepts](#)

[CFPN 542 Design for Mobile Devices](#)

Next Offered: Spring/Summer 2021

[CFPN 547 Co-Operative Internship](#)

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

Next Offered: Spring/Summer 2021

[CNPf 566 History of Animation](#)

- 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

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



Economics and Finance

Certificate

[Register now](#)

FULLY ONLINE



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.

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Economics and Finance has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CQMS 102 has been removed as an elective

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

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2021

[CFIN 300 Managerial Finance I](#)

Next Offered: Spring/Summer 2021

[CFIN 401 Managerial Finance II](#)

Next Offered: Spring/Summer 2021

Electives (select 2)

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

[CECN 129 Statistics for Economics I](#)

[CECN 301 Intermediate Macroeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 504 Intermediate Microeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 506 Money and Banking](#)

Next Offered: Spring/Summer 2021

[CECN 606 International Monetary Economics](#)

Next Offered: Spring/Summer 2021

[CECN 703 Public Sector Economics](#)

[CECN 721 International Financial Markets](#)

[CFIN 501 Investment Analysis](#)

Next Offered: Spring/Summer 2021

[CFIN 502 Personal Financial Planning](#)

Next Offered: Spring/Summer 2021

[CFIN 510 Small Business Finance](#)

[CFIN 512 Risk Management and Insurance](#)

Next Offered: Spring/Summer 2021

[CFIN 601 Derivatives](#)

[CFIN 612 Retirement and Estate Planning](#)

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

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: Fundamentals

Certificate

[Register now](#)

FULLY ONLINE

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.

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

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

[CECN 504 Intermediate Microeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 506 Money and Banking](#)

Next Offered: Spring/Summer 2021

[CECN 511 Economy and Environment](#)

Next Offered: Spring/Summer 2021

[CECN 512 The Economics of Sex](#)

[CECN 603 Economic Issues in Globalization](#)

Next Offered: Spring/Summer 2021

[CECN 640 Economics of Immigration](#)

[CECN 722 Economic Issues in](#)

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
 - 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: Theory and Applications

[Register now](#) ▶

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.

📅 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 1) —

[CECN 301 Intermediate Macroeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 504 Intermediate Microeconomics I](#)

Next Offered: Spring/Summer 2021

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

[CECN 230 Mathematics for Economics II](#)

Next Offered: Spring/Summer 2021

[CECN 301 Intermediate Macroeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 501 Industrial Organization](#)

[CECN 504 Intermediate Microeconomics I](#)

Next Offered: Spring/Summer 2021

[CECN 510 Environmental Economics](#)

[CECN 600 Intermediate Macroeconomics II](#)

Next Offered: Spring/Summer 2021

[CECN 601 Economics of Information](#)

[CECN 605 Labour Economics](#)

[CECN 606 International Monetary Economics](#)

Next Offered: Spring/Summer 2021

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

[CECN 627 Econometrics I](#)

Next Offered: Spring/Summer 2021

[CECN 700 Intermediate Microeconomics II](#)

Next Offered: Spring/Summer 2021

[CECN 702 Econometrics II](#)

[CECN 703 Public Sector Economics](#)

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

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:

Next Offered:Spring/Summer 2021


- 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 715 Advanced
Microeconomics](#)

[CECN 803 Canadian Tax Policy](#)

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

[CECN 815 Advanced
Macroeconomics](#)

Awards and Financial Aid

+

Contact Us

+

Emergency Management and Response Planning

[Register now](#)

Certificate

FULLY ONLINE



From avalanches to wildfires to pandemics, natural and humanitarian disasters have the potential to affect us all. If you're currently working in or are looking for a career change to emergency management and response planning, this certificate program will help you prepare for ground, frontline, and managerial leadership in the field.

By taking this certificate, you will gain skills in mid- to high-level managerial competencies and planning as well as management and reporting practices relevant to the field. Upon completion, you will be able to advance or change your career by becoming an emergency, risk, and continuity management professional. A number of [graduates](#) of this program are now managers and directors of emergency and response planning management oversight in corporations, companies, universities, international non-profit organizations, as well as federal, provincial and municipal governments.

Attend Our Webinar

Date: Friday, April 9, 2021

Time: 12:00 p.m.–1:00 p.m. EST

[RSVP](#)

Required Courses

[CKDM 160 Emerging Issues](#)

Next Offered: Spring/Summer 2021

[CSCI 232 Incident and Operations Management](#)

Next Offered: Spring/Summer 2021

[CSCI 234 Analysis of Critical Incidents](#)

Next Offered: Spring/Summer 2021

[CSCI 241 Planning for Emergency Management](#)

Next Offered: Spring/Summer 2021

[CSCI 243 Continuity and Risk Management](#)

Next Offered: Spring/Summer 2021

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 Coordination](#)

[CSCI 230 Emergency Management Practice](#)

Next Offered: Spring/Summer 2021

Approved by Emergency Management Ontario +

What Will You Learn? +

Who Should Take This Certificate? +

Recommended Course Sequence +

Who Teaches the Courses? +

Industry and Careers +

Certificate Requirements -

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

Energy Management and Conservation

Certificate

[Register now](#)

FULLY ONLINE



Required Courses

[CTEC 241 Energy Innovation](#)

[CTEC 264 Trends in Smart Grid](#)

Next Offered: Spring/Summer 2021

[CTEC 269 Trends in Energy Conservation](#)

Next Offered: Spring/Summer 2021

[CTEC 282 Public Policy in Energy](#)

Next Offered: Spring/Summer 2021

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.

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](#)

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.

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

[Register now](#)



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.

Note: Effective Fall 2020, the Certificate in English Literature and Popular Culture has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

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

[CENG 110 Literatures Across Borders](#)

Next Offered: Spring/Summer 2021

Electives (select 5)

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

Next Offered: Spring/Summer 2021

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

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

[CENG 222 Fairy Tales and Fantasies](#)

Next Offered: Spring/Summer 2021

[CENG 230 Creativity, Writing, and Everyday Life](#)

[CENG 503 Science Fiction](#)

[CENG 505 Creative Writing](#)

[CENG 510 Gothic Horror](#)

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

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

[CENG 706 Shakespeare and Performance](#)

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

[Register now](#)

FULLY ONLINE



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](#)

Next Offered: Spring/Summer 2021

[CGMS 522 International Marketing](#)

Next Offered: Spring/Summer 2021

[CMKT 100 Principles of Marketing](#)

Next Offered: Spring/Summer 2021

Electives (select 1)

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

[CGMS 691 The Asian Business Environment](#)

Next Offered: Spring/Summer 2021

[CGMS 692 The European Business Environment](#)

Next Offered: Spring/Summer 2021

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

[Express interest](#)

Not ready to enrol but want to learn more?

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

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

[Register now](#)



Required Courses

[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

[CENT 505 Small-Business Management](#)

Next Offered: Spring/Summer 2021

[CENT 526 Entrepreneurial Behaviour and Strategy](#)

Next Offered: Spring/Summer 2021

[CENT 601 Identifying Opportunities](#)

Next Offered: Spring/Summer 2021

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](#)).

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)

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](#)

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 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 +

Ethics

Certificate

[Register now](#)

FULLY ONLINE



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.

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Ethics has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CENG 520 has been removed as an elective

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

[COPH 200 Ethics Capstone Course](#)

Electives – Group A (select 2)

[CPHL 302 Ethics and Health Care](#)

Next Offered: Spring/Summer 2021

[CPHL 307 Business Ethics](#)

Next Offered: Spring/Summer 2021

[CPHL 400 Human Rights and Justice](#)

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

[CPHL 449 Philosophy of Punishment](#)

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

Next Offered: Spring/Summer 2021

[CPHL 503 Ancient and Modern Ethics](#)

[CPHL 509 Bioethics](#)

Next Offered: Spring/Summer 2021

[CPHL 525 Environmental Ethics](#)

[CPHL 530 Media Ethics](#)

[CPHL 603 Modern and Contemporary Ethics](#)

Next Offered: Spring/Summer 2021

[CPHL 612 Philosophy of Law](#)

Next Offered: Spring/Summer 2021

[CPHL 614 Philosophy of Human Rights](#)

Electives – Group B (select 3 not previously taken in Electives – Group A)

[CCRM 200 Criminal Law](#)

[CCRM 322 Ethics in Criminal Justice](#)

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

Next Offered: Spring/Summer 2021

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Course Delivery Schedule

+

Certificate Requirements

-

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

*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).

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

+

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

[CECN 510 Environmental Economics](#)

[CENG 413 Literature And Colonization](#)

[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!](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CLAW 122 Business Law](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CLAW 529 Employment and Labour Law](#)

Next Offered:Spring/Summer 2021

[CLAW 603 Advanced Business Law](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CMHR 640 Leadership](#)

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

[CPHL 302 Ethics and Health Care](#)

Next Offered:Spring/Summer 2021

[CPHL 307 Business Ethics](#)

Next Offered:Spring/Summer 2021

[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](#)

Next Offered:Spring/Summer 2021

[CPHL 503 Ancient and Modern Ethics](#)

[CPHL 507 Ethics and Disability](#)

[CPHL 509 Bioethics](#)

Next Offered:Spring/Summer 2021

[CPHL 525 Environmental Ethics](#)

[CPHL 530 Media Ethics](#)

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

[CPHL 603 Modern and Contemporary Ethics](#)

Next Offered:Spring/Summer 2021

[CPHL 612 Philosophy of Law](#)

Next Offered:Spring/Summer 2021

[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](#)

Next Offered:Spring/Summer 2021

[CPSY 124 Social Psychology](#)

[CPSY 300 Psychology and Law](#)

Next Offered:Spring/Summer 2021

[CPSY 518 Environmental Psychology](#)

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

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

[CPSY 808 Community Psychology](#)

Next Offered:Spring/Summer 2021

[CSOC 609 Women and Human Rights](#)

[CSOC 705 Law and Justice](#)

Facility and Property Management

[Register now](#)

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**

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: 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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CDFM 111 Capital and Asset Management](#)

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

[CDFM 113 Sustainability in Facilities](#)

Next Offered: Spring/Summer 2021

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

What Will You Learn?



Who Should Take This Certificate?



Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- Six required courses
 - 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:

- 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

+

Contact Us

+

Fashion Coordination and Styling

Certificate

Register now



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.

Are you interested in completing the full Certificate in Fashion Coordination and Styling through our summer intensive 13-week program?

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

Express Interest

Required Courses

[CDFC 101 Fashion Coordination](#)

Next Offered: Spring/Summer 2021

[CDFC 102 Fashion Styling](#)

Next Offered: Spring/Summer 2021

[CDFC 103 Design Fundamentals in Fashion](#)

Next Offered: Spring/Summer 2021

[CDFC 104 Creating the Image](#)

Next Offered: Spring/Summer 2021

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 2021

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

Next Offered: Spring/Summer 2021

[CDFC 107 Fashion Buying](#)

[CDFC 200 Fashion Photography](#)

[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

[CFSN 703 Visual Merchandising and Display](#)

[CMKT 100 Principles of Marketing](#)

Next Offered: Spring/Summer 2021

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 +

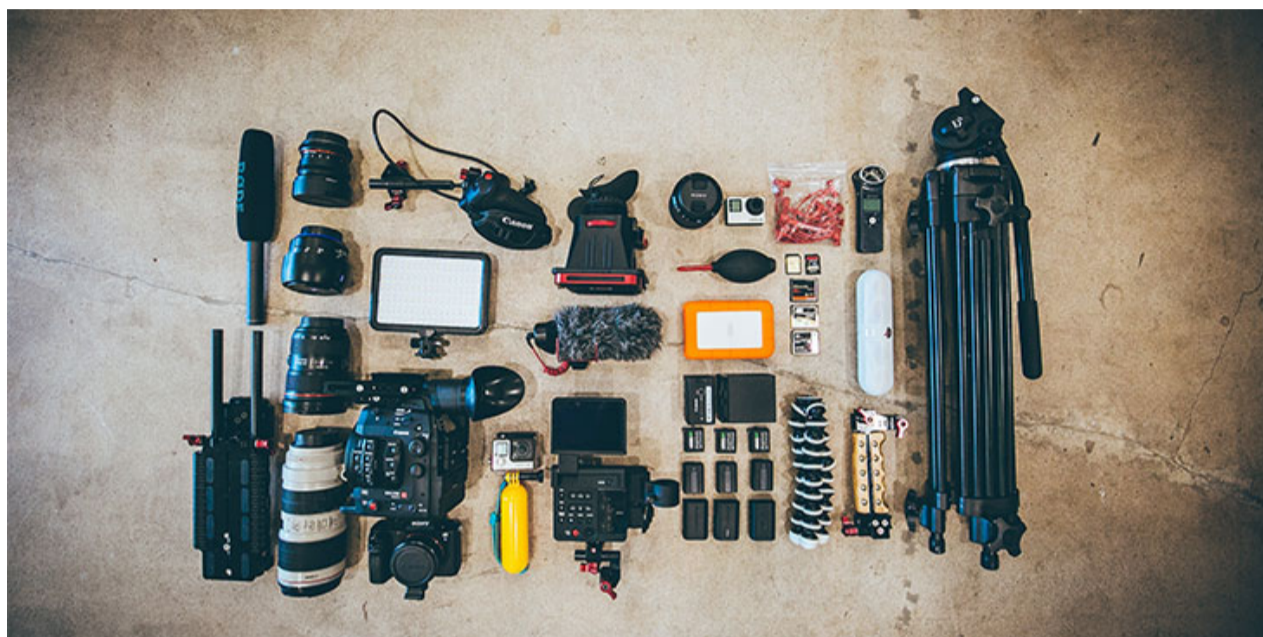
Intensive Option +

Contact Us +

Film Studies

Certificate

[Register now](#)



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.

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

[Express interest](#)

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

Equipment/Facilities Use

Please note that equipment and facilities use outside of class time will not be provided. **All course work requiring use of Ryerson equipment and facilities must be done during class time only.**

What Will You Learn?



Who Should Take This Certificate?



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](#)

Next Offered: Spring/Summer 2021

[CMPF 301 Business of Film](#)

[CMPF 302 Business of Film II](#)

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

[Register now](#)

Certificate



Required Courses

[CMTH 500 Introduction to Stochastic Processes](#)

Next Offered: Spring/Summer 2021

[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

[Register now](#)



Required Courses

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

[CFIN 501 Investment Analysis](#)

Next Offered: Spring/Summer 2021

[CFIN 502 Personal Financial Planning](#)

Next Offered: Spring/Summer 2021

[CFIN 512 Risk Management and Insurance](#)

Next Offered: Spring/Summer 2021

[CFIN 612 Retirement and Estate Planning](#)

[CFIN 812 Advanced Personal Financial Planning](#)

Note: The Certificate in Financial Planning is currently under review and no further registrations are being accepted at this time. If you have any questions, please contact ce@ryerson.ca

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 FP Canada: Qualified Associate Financial Planner™ certification (QAFFP) and Certified Financial Planner® (CFP).

For more information on FP Canada certifications, please visit fpcanada.ca.

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

Who Should Take This Certificate? +

Professional Designations +

Who Teaches the Courses? +

Industry and Careers +

Recommended Course Sequence +

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 210 - Applied Statistics for Business](#)

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

[Register now](#)

FULLY ONLINE



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.

What Will You Learn?

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 CFNP 250 or CFNY 404.

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

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[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](#)

Who Should Take This Certificate?



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

Next Offered:Spring/Summer 2021

Who Teaches the Courses?



[CVFN 410 Understanding Urban Agriculture](#)

Industry and Careers



[CVFN 411 Dimensions of Urban Agriculture](#)

Certificate Requirements



[CVFN 412 Practicing Urban Agriculture](#)

Next Offered:Spring/Summer 2021

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

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

[CVFS 401 Contemporary Family Issues](#)

Next Offered:Spring/Summer 2021

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

- 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

[Register now](#)



Required Courses

[CGMS 200 Introduction to Global Management](#)

Next Offered: Spring/Summer 2021

[CGMS 400 The Global Business Environment](#)

[CGMS 401 Operations Management](#)

Next Offered: Spring/Summer 2021

[CGMS 110 Applied Mathematics for Business](#)

Next Offered: Spring/Summer 2021

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)**

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Foundation of International Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum

requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

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

[Register now](#)

Certificate



Required Courses

[CDID 150 Design Theory](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

[CIRC 112 Introduction to Digital Communication](#)

Next Offered: Spring/Summer 2021

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](#)

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

Want to find out more about the **Certificate in Fundamentals of Interior Design**? Express interest to connect with this program and receive updates.

[Express interest](#)

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

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

[Register now](#)

FULLY ONLINE



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.

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

[CINP 912 Marketing for Nonprofits](#)

[CINT 916 Introduction to Fundraising](#)

Next Offered: Spring/Summer 2021

[CVFM 201 Operations of Fundraising](#)

[CVFM 202 Donor Centered Fundraising](#)

Electives (select 2)

[CVFM 203 Fundraising Campaigns](#)

Next Offered: Spring/Summer 2021

[CVFM 205 Data Analytics for Fundraising](#)

Next Offered: Spring/Summer 2021

[CVFM 302 Entrepreneurial Fundraising](#)

[CVFM 303 Annual Giving Programs](#)

Next Offered: Spring/Summer 2021

[Watch the latest Fundraising Management webinar now.](#)

Fundraising Management Webinar





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.

Note: Effective Fall 2020, the Certificate in Fundraising Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CVFM 205 has been added as an elective

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.rverson](#) (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

[Register now](#)



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 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 2021

[CGCM 120 Graphic Communications Processes 1](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[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

[Register now](#)

FULLY ONLINE



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.

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 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)



Note: Effective Fall 2020, the Certificate in Health Informatics has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

Required Courses

[CHIM 305 Introduction to Health Informatics](#)

Next Offered: Spring/Summer 2021

[CHIM 306 Healthcare Interoperability](#)

[CHSM 301 The Healthcare Systems](#)

Next Offered: Spring/Summer 2021

[CHSM 305 The Management Cycle](#)

Electives (select 3)

If you do not have a background in health information, you should complete CHIM 303. You should select CMHR 405 if you wish to pursue CMHR 650, as CHSM 437 does not provide a prerequisite for CMHR 650.

[CHIM 301 Healthcare Information Analysis](#)

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

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

[CHIM 404 Introduction to Health Economics](#)

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

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

Next Offered: Spring/Summer 2021

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

[CIND 119 Introduction to Big Data](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses?



Industry and Careers



Recommended Course Sequence



Professional Designations and Accreditation



Testimonial



Frequently Asked Questions



Certificate Requirements



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

*If you do not have a background in health information, you should complete CHIM 303.

You should select CMHR 405 if you wish to pursue CMHR 650, as CHSM 437 does not provide a prerequisite for CMHR 650.

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

- Mature student status with relevant work experience
 - With minimum of 1 year's related professional experience in the health or information technology sectors

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.

Professional Development



Awards and Financial Aid



[CITM 301 IT Infrastructure](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CLAW 401 Information Access and Privacy Protection](#)

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

[CMHR 405 Organizational Behaviour](#)

Next Offered:Spring/Summer 2021

[CMHR 523 Human Resources Management](#)

Next Offered:Spring/Summer 2021

[CMHR 640 Leadership](#)

[CMHR 650 Management of Change](#)

Next Offered:Spring/Summer 2021

[CQMS 210 Applied Statistics for Business](#)

Next Offered:Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered:Spring/Summer 2021

Health Services Management

Certificate

[Register now](#)

FULLY ONLINE



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.

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

[CHSM 301 The Healthcare Systems](#)

Next Offered: Spring/Summer 2021

[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: Spring/Summer 2021

[CCMN 279 Introduction to Professional Communication](#)

Next Offered: Spring/Summer 2021

[CHIM 300 Managing Health Information Services](#)

[CHIM 301 Healthcare Information Analysis](#)

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

[CHIM 305 Introduction to Health Informatics](#)

Next Offered: Spring/Summer 2021

[CHIM 404 Introduction to Health Economics](#)

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

Next Offered: Spring/Summer 2021

[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](#)

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

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.

Professional Development

+

Awards and Financial Aid

+

Contact Us

+

[CHSM 310 Institutional Structure](#)

[CHSM 330 Managerial](#)

[Epidemiology for Healthcare](#)

[CHSM 408 Program Planning and](#)

[Evaluation](#)

Next Offered: Spring/Summer 2021

[CHSM 417 Research Methodology](#)

Health Studies

Certificate

[Register now](#)

FULLY ONLINE



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.

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](#)

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

Required Course

[CHSM 301 The Healthcare Systems](#)

Next Offered: Spring/Summer 2021

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 2021

[CCMN 314 Professional Presentations](#)

[CHIM 301 Healthcare Information Analysis](#)

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

[CHIM 305 Introduction to Health Informatics](#)

Next Offered: Spring/Summer 2021

[CHIM 306 Healthcare Interoperability](#)

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

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

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

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

Admission Criteria

Required:


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

OR

- A related professional development award

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

Awards and Financial Aid

Contact Us

[Society](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CINT 945 Technology and Aging Populations](#)

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

[CPHL 302 Ethics and Health Care](#)

Next Offered:Spring/Summer 2021

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

[CPHL 509 Bioethics](#)

Next Offered:Spring/Summer 2021

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

[CPSY 102 Introduction to Psychology I](#)

Next Offered:Spring/Summer 2021

[CPSY 105 Perspectives in Psychology](#)

Next Offered:Spring/Summer 2021

[CPSY 325 Psychological Disorders](#)

Next Offered:Spring/Summer 2021

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

[CPSY 607 Drugs and Human Behaviour](#)

Next Offered:Spring/Summer 2021

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

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

[CPSY 808 Community Psychology](#)

Next Offered:Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered:Spring/Summer 2021

Human Resources Management

Certificate

[Register now](#)



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)
- **NEW! [CZAA 100 Understanding Financial Information](#).** Since August 2020, this single non-credit course has been approved by the HRPA to cover the coursework requirement for the Accounting and Finance subject area for the

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](#)

Next Offered: Spring/Summer 2021

[CMHR 523 Human Resources Management](#)

Next Offered: Spring/Summer 2021

Electives (select 4)

[CLAW 529 Employment and Labour Law](#)

Next Offered: Spring/Summer 2021

[CMHR 522 Union Management Relations](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CMHR 623 Recruitment and Selection](#)

Next Offered: Spring/Summer 2021

[CMHR 671 Human Resources Information Systems](#)

[CMHR 711 Occupational Health and Safety](#)

Next Offered: Spring/Summer 2021

[CMHR 733 Training and Development](#)

Next Offered: Spring/Summer 2021

[CMHR 749 Compensation Management](#)

Next Offered: Spring/Summer 2021

[CMHR 849 Human Resources Planning](#)

Next Offered: Spring/Summer 2021

coursework requirement for the Accounting and Finance subject area for the

CHRP designation. The course is not part of this certificate but available through The Chang School.

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)

[Register now](#)

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.

Want to find out more 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](#)

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. **All course work requiring use of Ryerson equipment and facilities must be done during class time only.**

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*

Required Courses

[CMPC 101 Visual Studies I](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CMPC 201 Visual Art: Concepts and Theories](#)

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

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[CDFP 329 Photography Production II](#)

Next Offered: Spring/Summer 2021

[CDFP 333 Photography and Digital Imaging](#)

- Cumulative grade point average (GPA) of 1.67+

Next Offered: Spring/Summer 2021

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

[CDFP 358 Photography and the Screen](#)

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

[Register now](#)

FULLY ONLINE



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.

Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Information Systems Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CITM 550 has been added as an elective

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](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CITM 301 IT Infrastructure](#)

Next Offered: Spring/Summer 2021

[CITM 305 Systems Analysis and Design](#)

Next Offered: Spring/Summer 2021

[CITM 500 Data and Information Management](#)

Next Offered: Spring/Summer 2021

Electives (select one)

[CITM 200 Fundamentals of Programming](#)

Next Offered: Spring/Summer 2021

[CITM 315 Server Administration](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CITM 550 Advanced 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

+

Introduction to Community Services

Certificate

[Register now](#)

NEW FOR FALL 2020

FULLY ONLINE



Have you ever wanted to make a difference in your community but aren't sure where to start?

In today's changing society, the role of community services has never been more important. If you're thinking about a career as a community service worker, there are more job opportunities than ever before.

This four-course, fully-online certificate will provide you with the general knowledge and skills required for the field. You can choose from electives in [food security](#), [aging and gerontology](#), and [community engagement](#) streams or more broad general electives to complete your certificate.

If you choose electives in one of the three streams, you can use the university degree credit courses towards a certificate in food security, aging and gerontology, or community engagement.

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

[CINT 920 Community Collaborations](#)

Next Offered: Spring/Summer 2021

Food Security Stream (select 3)

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

Next Offered: Spring/Summer 2021

[CFNY 408 Urban Food Security](#)

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

Aging and Gerontology Stream (select 3)

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CINT 945 Technology and Aging Populations](#)

Community Engagement Stream (select 2)

Select 2 electives from this stream and 1 elective from another stream or a general elective.

[CSWP 934 Community Engagement Foundations](#)

Next Offered: Spring/Summer 2021

[CSWP 936 Community Engagement Practices](#)

Next Offered: Spring/Summer 2021

General Elective

Select any 3 electives across any stream or general electives

What Will You Learn? +

Who Teaches the Courses? +

Who Should Take This Certificate? +

Industry and Careers +

Certificate Requirements -

stream of general electives.

- One required course
- Three electives
- Cumulative grade point average (GPA) of 1.67+

Recommended Course Sequence

+

Admission Criteria

-

Recommended:

OSSD with six Grade 12 U or M credits (including English), with a minimum average of 60 percent, or equivalent

OR

mature student status with relevant work experience

Undergraduate students wishing to pursue a continuing education certificate program should be aware of possible restrictions; please refer to Curriculum Advising for complete details.

Awards and Financial Aid

+

Contact Us

+

[CINT 902 Disability Issues](#)

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

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

Next Offered:Spring/Summer 2021

[CVFS 401 Contemporary Family Issues](#)

Next Offered:Spring/Summer 2021

[CPLE 795 Local Economic Development Fundamentals](#)

Landscape Design

Certificate

[Register now](#)

FULLY ONLINE

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.

Note: Effective Fall 2020, the Certificate in Landscape Design has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CKLA 440 has been removed as an elective

Required Courses

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKLA 320 Plant Materials](#)

[CKLA 330 Landscape Design Studio](#)

Electives (select 2)

[CKLA 400 Ecology and Sustainable Landscapes](#)

Next Offered: Spring/Summer 2021

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

[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

[Register now](#)



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)

Note: Effective Fall 2020, the Certificate in Leadership in Organizations has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CMHR 600 has been added as an elective

Required Courses

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

[CMHR 640 Leadership](#)

Electives (select 4)

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

Next Offered: Spring/Summer 2021

[CMHR 650 Management of Change](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CMHR 721 Negotiation and Conflict Resolution](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CMHR 841 Organization Theory and Design](#)

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

☑ 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](#)

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.

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 +

Level 1 Public Administration and Governance

Certificate

Register now

FULLY ONLINE



[View a recording of the online information session for Public Administration and Governance.](#)

Enter access passcode: HA*?zh2e to view the video.

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 fulfil Level 1 of [Ryerson's BA \(Honours\) in Public Administration and Governance](#).

What Will You Learn?



Who Should Take This Certificate?



Who Teaches the Courses?



Required Courses

[CPPA 101 Cdn Public Administration I: Institutions](#)
Next Offered: Spring/Summer 2021

[CPPA 102 Cdn Public Administration II: Processes](#)
Next Offered: Spring/Summer 2021

[CPPA 125 Rights, Equity and the State](#)
Next Offered: Spring/Summer 2021

Required Group 1 (select 2)

[CPPA 120 Canadian Politics and Government](#)
Next Offered: Spring/Summer 2021

[CPPA 121 Ontario Politics and Government](#)

[CPPA 122 Local Politics and Government](#)
Next Offered: Spring/Summer 2021

[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)

Industry and Careers



Testimonials



Certificate Requirements



- 3 required courses
- 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 Level 1 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 Level 2 Certificate in Public Administration and Governance, you may continue your studies to earn a [BA \(Honours\) in Public Administration and Governance](#) from Ryerson University.

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.

[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



Level 2 Public Administration and Governance

[Register now](#) ▶

Certificate

If you have already completed the [Level 1 Certificate in Public Administration and Governance](#), this **Level 2 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 fulfil Level 2 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 -

- 1 required course
- 3 courses from Required Group 1 (not previously taken in the Certificate in Level 1 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+

Required Course -

[CPPA 211 Public Policy](#)

Next Offered: Spring/Summer 2021

Required Group 1 (select 3) -

Choose 3 courses not previously taken in the Certificate in Level 1 Public Administration and Governance.

[CPPA 120 Canadian Politics and Government](#)

Next Offered: Spring/Summer 2021

[CPPA 121 Ontario Politics and Government](#)

[CPPA 122 Local Politics and Government](#)

Next Offered: Spring/Summer 2021

[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) -

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](#)

Note: If you wish to obtain your Level 1 Certificate in Public Administration and Governance or the Level 2 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 Level 1 Certificate in Public Administration and Governance, you may continue your studies to earn a [BA \(Honours\) in Public Administration and Governance](#) from Ryerson University.

Admission Criteria

Required:

- [Level 1 Certificate in Public Administration and Governance](#)

Awards and Financial Aid

Contact Us

Professionally-Related Elective (select 1)

[CECN 101 Principles of Microeconomics](#)

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CECN 110 The Economy and Society](#)

[CECN 201 Principles of Macroeconomics](#)

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2021

[CECN 210 Understanding Economics](#)

[CECN 320 Introduction to Financial Economics](#)

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 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](#)

Lighting Design

Certificate

[Register now](#)



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**

Note: Effective Fall 2020, the Certificate in Lighting Design has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

Want to find out more about the **Certificate in Lighting Design?**

Express interest to connect with this program and receive updates.

[Express interest](#)

Required Courses

[CDID 500 Fundamentals in Lighting](#)

Next Offered: Spring/Summer 2021

[CDID 505 Lighting Photometric Software](#)

[CDID 510 Lighting Design Techniques](#)

[CDID 520 Lighting Controls & Energy Management](#)

Next Offered: Spring/Summer 2021

[CDID 540 Daylighting Design & Techniques](#)

[CDID 560 Intermediate 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

[Register now](#) ➔

FULLY ONLINE



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 2021

[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.

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](#) ↗

[Watch the latest Local Economic Development webinar now.](#) ↗

Local Economic Development Webinar



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

[Register now](#) ➔

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

Required Courses

[CRTA 102 Creative Processes](#)

[CRTA 212 Media Writing](#)

Next Offered: Spring/Summer 2021

Electives (select 5)

[CDMP 125 Fiction Screenwriting](#)

[CDMP 126 Non-Fiction Screenwriting](#)

[CRTA 941 Dramatic Writing](#)

Next Offered: Spring/Summer 2021

[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

[Register now](#)



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.

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

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2021

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2021

[CPSY 215 Psychology of Addictions](#)

Next Offered: Spring/Summer 2021

[CPSY 325 Psychological Disorders](#)

Next Offered: Spring/Summer 2021

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 2021

[CPSY 335 Clinical Psychology](#)

Next Offered: Spring/Summer 2021

[CPSY 607 Drugs and Human Behaviour](#)

Next Offered: Spring/Summer 2021

Electives – Group B (select 3 or 4)

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2021

[CPSY 302 Child Development](#)

Next Offered: Spring/Summer 2021

[CPSY 412 Human Brain Circuitry](#)

[CPSY 602 Developmental Psychopathology](#)

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.

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 605 Psychology of Health and Health Care](#)

[CPSY 620 Psychology of Immigration](#)

[CPSY 621 Psychology of Human Sexuality](#)

Next Offered: Spring/Summer 2021

[CPSY 682 Sleep](#)

Next Offered: Spring/Summer 2021

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

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

[CPSY 806 Behaviour Modification](#)

[CPSY 808 Community Psychology](#)

Next Offered: Spring/Summer 2021

Music: Global and Cultural Contexts

Certificate

[Register now](#)



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.

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 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](#)

Next Offered: Spring/Summer 2021

[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 B (select 3)

[CMUS 201 Introduction to Classical Music](#)

[CMUS 303 Global Guitar](#)

[CMUS 503 Social Issues in Popular Music](#)

Next Offered: Spring/Summer 2021

[CMUS 505 The History of Pop Music](#)

Next Offered: Spring/Summer 2021

[CRTA 180 Music and Film](#)

Next Offered: Spring/Summer 2021

[CRTA 183 Rhythm, Beat and Groove](#)

[CRTA 406 Chinese Instrumental Music](#)

[CRTA 530 Chinese Music](#)

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.

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

[Register now](#)



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**

- 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+

Required Course -

[CNNS 101 Introduction to News Studies](#)

Electives (select 5) -

[CNNS 102 Understanding Multimedia Journalism](#)

[CNNS 344 Making a Difference: How Journalism Matters](#)

[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 Follow the Money: Business Journalism](#)

[CNNS 505 Health and Science Journalism](#)

[CNNS 512 Reporting Sports](#)

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

[Register now](#)

FULLY ONLINE

The Chang School Certificate in Nonprofit and Voluntary Sector M...



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.

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 CINI 902 or CINI 915.

[CINI 900 Understanding the Nonprofit Sector](#)

Next Offered: Spring/Summer 2021

[CINI 901 Effective Nonprofit Organizations](#)

Next Offered: Spring/Summer 2021

[CINI 902 Evaluation for Nonprofits](#)

[CINI 915 Financial Management for Nonprofits](#)

Next Offered: Spring/Summer 2021

[CINI 920 Critical Issues in the Nonprofit Sector](#)

Next Offered: Spring/Summer 2021

Electives (select 4 not previously taken in Required Courses)

[CINI 902 Evaluation for Nonprofits](#)

[CINI 910 Strategic Planning for Nonprofits](#)

[CINI 911 Advocacy and Gov't Relations: Nonprofits](#)

Next Offered: Spring/Summer 2021

[CINI 912 Marketing for Nonprofits](#)

[CINI 913 Leadership in Nonprofits](#)

Next Offered: Spring/Summer 2021

[CINI 914 Diversity in Nonprofits](#)

Next Offered: Spring/Summer 2021

[CINI 915 Financial Management for Nonprofits](#)

Next Offered: Spring/Summer 2021

[CINI 916 Nonprofits on the Global Stage](#)

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.

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 +

Nursing and Interprofessional Healthcare Leadership and Management

Certificate

Register now

NEW FOR FALL 2020 FULLY ONLINE



Are you a healthcare professional with aspirations of a leadership and management role in healthcare?

In this fully-online certificate, you will build on your knowledge of leadership and management from your undergraduate degree to help you solve practical leadership and management issues.

This program aligns with the leadership and management functions of today's healthcare professionals and is based on the LEADS Framework. The framework encompasses the current best practice guidelines for Developing and Sustaining Nursing Leadership by the Registered Nurses' Association of Ontario (RNAO):

- Lead self
- Engage others
- Achieve results
- Develop coalitions
- Systems transformation

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

[CVNU 360 Advanced Leadership and Management](#)

[CVNU 370 Change and Innovation](#)

Electives (select 2)

Other electives may be selected with consultation and permission of the Academic Lead. e.g. CMHR 850: Coaching, Facilitation, and Internal Consulting; other Human Resources courses such as Recruitment and Selection, Training and development, Compensation, HR Planning, Occupational Health and Safety, Union Relations or other newly developed courses.

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

Next Offered: Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

[CHSM 301 The Healthcare Systems](#)

Next Offered: Spring/Summer 2021

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

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CVIN 150 Advancing the Patient Experience](#)

[CVNU 322 Computer and](#)

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches The Course? +

Industry & Careers



Certificate Requirements



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

*Electives are divided into two groups, allowing you to focus on specialized skills. Select courses from program planning and evaluation and/or leadership and management electives.

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 the 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



To qualify for registration into the certificate, you must meet one of the following criteria:

- be a member of a regulated health discipline with a minimum of an undergraduate degree
- undergraduate (or equivalent) degree in health services management
- registered practical nurse (RPN) license (recommended completion of two prior undergraduate courses with a C and written assignments)

Admission Application

Students who may need to refresh their baccalaureate leadership and management foundational knowledge and skills may be advised to consider taking one of the following prior to registering in the certificate program:

[CNUR 831 - Leadership Development for Practice](#) (for baccalaureate RNs only)

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

[CKPM 211 - Leadership in Project Management](#)

[CMHR 405 - Organizational Behaviour and Interpersonal Skills](#)

Frequently Asked Questions



Contact Us



Occupational Health and Safety

Certificate

[Register now](#)

FULLY ONLINE

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.

***Please note intensive offerings will be on hold until we return to campus.**

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 must 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.

Occupational Health and Safety Certificates

Required Courses

[CCMN 114 Short Management Reports](#)

Next Offered: Spring/Summer 2021

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

[COHS 208 Occupational Health and Safety Law](#)

Next Offered: Spring/Summer 2021

[COHS 314 Physical Agents](#)

[COHS 508 Occupational Health and Safety](#)

Next Offered: Spring/Summer 2021

[COHS 608 Hazard Recognition and Control](#)

Next Offered: Spring/Summer 2021

[COHS 811 OHSE Management Systems](#)

Next Offered: Spring/Summer 2021

Electives (select 1)

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

Next Offered: Spring/Summer 2021

[CPPA 101 Cdn Public Administration I: Institutions](#)

Next Offered: Spring/Summer 2021

[Express interest](#)



Note to students registered in this certificate program: Effective Fall 2020, the Certificate in Occupational Health and Safety has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

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



Occupational Health and Safety Leadership

[Register now](#)

Certificate

FULLY ONLINE



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.

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

[COHS 477 Disability Management](#)

[COHS 840 OHS Leadership and Ethics](#)

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

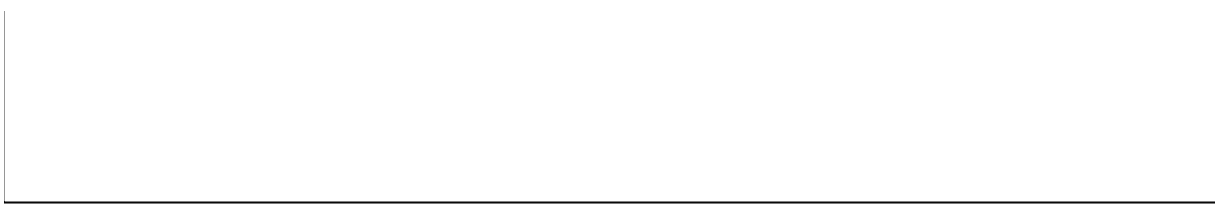
Elective (select 1)

[CINT 960 Leadership Framework for Community](#)

[CMHR 640 Leadership](#)

Occupational Health and Safety Certificates





What Will You Learn? +

Industry and Careers +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Professional Designations and Accreditation +

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.

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 +

Photography Studies

Certificate

[Register now](#)

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

Equipment/Facilities Use

Please note that equipment and facilities use outside of class time will not be provided. **All course work requiring use of Ryerson equipment and facilities must be done during class time only.**

What Will You Learn?



Required Courses

[CDFP 328 Photography Production I](#)

Next Offered: Spring/Summer 2021

[CDFP 329 Photography Production II](#)

Next Offered: Spring/Summer 2021

[CDFP 391 History of Photography I](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[CDFP 353 From Still to Motion](#)

[CDFP 358 Photography and the Screen](#)

[CDFP 367 Photoshop for Photographers](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CDFP 398 History of Photography II](#)

Who Should Take This Certificate?

Who Teaches the Courses?

Industry and Careers

Testimonial

Certificate Requirements

- 3 required courses
- 5 39-hour electives
 - 2 19.5-hour courses are considered equivalent to 1 39-hour course
- Cumulative grade point average (GPA) of 1.67+

You must complete the certificate within five years of registering in the Certificate in Photography Studies 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.

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 60 percent

OR

- Mature student status with 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

Intensive Option

Course Series in Creative Photography

Frequently Asked Questions

The Chang School Photography Exhibition

Contact Us

+

[CDFP 403 Creative Wedding Photography](#)

+

[CDFP 404 Magazine/Editorial Photography](#)

+

[CDFP 405 Architectural Photography](#)

+

[CDFP 415 Studio Lighting III](#)

[CDFP 905 Contemporary Photographic Art](#)

Next Offered: Spring/Summer 2021

[CDFP 918 Photojournalism](#)

[CFPN 532 Advanced Studio Lighting](#)

[CFPN 536 Media Business Practices](#)

[CFPN 539 The Human Figure](#)

[CFPN 543 Historical Processes Workshop](#)

Electives: 19.5-Hour Courses

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

+

[CDFP 312 Art Direction for Ad Agencies](#)

-

[CDFP 414 Traditional Photography](#)

[CDFP 432 Digital Printing Workshop](#)

[CDFP 907 Using a 4X5 View Camera](#)

Practical Data Science and Machine Learning

[Register now](#)

Certificate

NEW FOR WINTER 2021 FULLY ONLINE



Required

[CIND 719 Big Data Analytics Tools](#)

Next Offered: Spring/Summer 2021

[CIND 840 Practical Approaches in Machine Learning](#)

Next Offered: Spring/Summer 2021

[CIND 850 Practical Deep Learning](#)

Next Offered: Spring/Summer 2021

[CIND 860 Advanced Data Analytics Project](#)

Applied data science, data analytics, big data, machine learning, and predictive analytics are recognized by employers across all industries and professions as having significant and growing societal importance to evidenced-based decision making and organizational performance.

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](#)

The Certificate in Practical Data Science and Machine Learning is a four-course, fully online certificate that builds on the quantitative background from completing the [Certificate in Data Analytics, Big Data and Predictive Analytics](#) or acquiring previous industry experience (or equivalent).

The certificate will cover practical applications rather than theoretical knowledge, and will not overlap with the existing Master of Science (MSc) in Data Science and Analytics at Ryerson University.

Note: courses for this certificate will be offered beginning in Winter 2021.

What Will You Learn? +

Who Should Take This Certificate? +

Who Teaches the Courses? +

Industry and Careers +

Professional Designations and Accreditation +

Recommended Course Sequence +

Frequently Asked Questions +

Certificate Requirements -

- Four 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:

Hold The Chang School's [Data Analytics, Big Data, and Predictive Analytics](#) certificate or equivalent.

OR

Mature student status and other relevant qualifications or relevant industry experience (to be determined by the Program Director).

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

Awards and Financial Aid +

Related Programs +

Big Data Consortium Reports +

Contact Us +

Privacy, Access, and Information Management

Register now

Certificate

Hot Careers Spotlight: The Privacy Professional



Required Courses

[CLAW 401 Information Access and Privacy Protection](#)

[CZIT 427 Data and Info. Mgmt for Privacy](#)

Next Offered: Spring/Summer 2021

[CZLW 327 Privacy By Design](#)

Next Offered: Spring/Summer 2021

[CZLW 527 Applying Privacy and Access](#)

Electives (select 2)

[CDPR 100 Public Relations Principles](#)

Next Offered: Spring/Summer 2021

[CHIM 305 Introduction to Health Informatics](#)

Next Offered: Spring/Summer 2021

[CITM 301 IT Infrastructure](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CLAW 122 Business Law](#)

Next Offered: Spring/Summer 2021

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

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

[CMHR 650 Management of Change](#)

Next Offered: Spring/Summer 2021

[CPPA 403 e-Government](#)

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.

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

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

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 -

- 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 (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 +

Awards and Financial Aid +

Contact Us +

Proficiency in French

Certificate

[Register now](#)



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.

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](#)

Lower and Intermediate Level Courses

[CFRE 201 Introductory French II](#)

Next Offered: Spring/Summer 2021

[CFRE 301 Intermediate French I](#)

Next Offered: Spring/Summer 2021

[CFRE 401 Intermediate French II](#)

Next Offered: Spring/Summer 2021

[CFRE 402 French Conversation and Pronunciation](#)

Next Offered: Spring/Summer 2021

Advanced Level Courses

[CFRE 501 Speaking and Writing French I](#)

Next Offered: Spring/Summer 2021

[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](#)

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 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 701 French for Today](#)

[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

[Register now](#)



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.

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

[CSPN 201 Introductory Spanish II](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[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

[Register now](#) ▶

FULLY ONLINE



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](#)

Next Offered: Spring/Summer 2021

Electives – Group A (select 3) -

[CKPM 123 Strategic Project Mgt \(Tech Prof\)](#)

[CKPM 203 Planning and Scheduling](#)

Next Offered: Spring/Summer 2021

[CKPM 211 Leadership in Project Management](#)

Next Offered: Spring/Summer 2021

[CKPM 212 Project Cost and Procurement Management](#)

Next Offered: Spring/Summer 2021

[CKPM 216 Project Management Internship](#)

Next Offered: Spring/Summer 2021

[CKPM 217 Agile Project Management](#)

Next Offered: Spring/Summer 2021

[CKPM 220 Rescuing Failing Projects](#)

[CKPM 456 Enterprise Project Mgt \(Tech Prof\)](#)

Electives – Group B (select 2) -

[CCMN 114 Short Management Reports](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CDCE 400 Exploring Leadership Skills](#)

[CKSS 210 Lean Six Sigma Contin Improvement](#)

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.

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

Next Offered: Spring/Summer 2021

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

[CMHR 650 Management of Change](#)

Next Offered: Spring/Summer 2021

Awards and Financial Aid



Contact Us



Project Management

Certificate

[Register now](#)

FULLY ONLINE

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.

Attend Our Webinar

Date: Friday, April 9, 2021

Time: 12:00 p.m.–1:00 p.m. EST

[RSVP](#)

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](#)

Next Offered: Spring/Summer 2021

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

Required Core Courses

[CKPM 203 Planning and Scheduling](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKPM 211 Leadership in Project Management](#)

Next Offered: Spring/Summer 2021

[CKPM 212 Project Cost and Procurement Management](#)

Next Offered: Spring/Summer 2021

Project Management Stream (select 3)

Complete 3 the following courses to achieve the Project Management Stream.

[CCMN 114 Short Management Reports](#)

Next Offered: Spring/Summer 2021

[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 2021

[CKPM 217 Agile Project Management](#)

Next Offered: Spring/Summer 2021

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

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

+

Architecture, Engineering, 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](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CITM 410 Business Process Design](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[CHSM 305 The Management Cycle](#)

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

Electives: 39-Hour Courses (select 1)

-

Awards and Financial Aid



Testimonials



Frequently Asked Questions



Contact Us



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.

[CCMN 114 Short Management Reports](#)

Next Offered:Spring/Summer 2021

[CDCE 305 Intro to Intercultural Communication](#)

[CDCE 306 Managing Workplace Relationships](#)

[CDCE 307 Wking with Culturally Diverse Clients](#)

[CDCE 308 Cross Cultural Teamwork](#)

[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 2021

[CKPM 216 Project Management Internship](#)

Next Offered:Spring/Summer 2021

[CKPM 217 Agile Project Management](#)

Next Offered:Spring/Summer 2021

[CKPM 218 Enterprise Project Management](#)

[CKPM 219 Mobile Project Management](#)

[CKPM 220 Rescuing Failing Projects](#)

[CKPM 221 From Technical to Managerial](#)

[CKSS 210 Lean Six Sigma Contin Improvement](#)

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

Next Offered:Spring/Summer 2021

[CMHR 405 Organizational Behaviour](#)

Next Offered:Spring/Summer 2021

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.

[**CKPP 110 Overview of Program Management**](#)

[**CKPP 120 Overview of Portfolio Management**](#)

Psychology

Certificate

[Register now](#)



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.

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 CPSY 102 or CPSY 105.

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2021

[CPSY 105 Perspectives in Psychology](#)

Next Offered: Spring/Summer 2021

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2021

[CPSY 411 Research Methods and Statistics I](#)

Next Offered: Spring/Summer 2021

[CPSY 612 Independent Study](#)

Electives (select 4)

[CPSY 214 Psychopharmacology](#)

[CPSY 215 Psychology of Addictions](#)

Next Offered: Spring/Summer 2021

[CPSY 300 Psychology and Law](#)

Next Offered: Spring/Summer 2021

[CPSY 302 Child Development](#)

Next Offered: Spring/Summer 2021

[CPSY 304 Psychology of Gender](#)

[CPSY 308 Psychology of Thinking](#)

Next Offered: Spring/Summer 2021

[CPSY 324 Biological Psychology](#)

Next Offered: Spring/Summer 2021

[CPSY 325 Psychological Disorders](#)

Next Offered: Spring/Summer 2021

[CPSY 335 Clinical Psychology](#)

Next Offered: Spring/Summer 2021

[CPSY 402 Adult Development](#)

[CPSY 412 Human Brain Circuitry](#)

[CPSY 504 Social Psychology](#)

[CPSY 505 Personality Theory](#)

Next Offered: Spring/Summer 2021

[CPSY 518 Environmental Psychology](#)

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

- 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

[Psychology](#).

[CPSY 602 Developmental Psychopathology](#)

[CPSY 606 Abnormal Psychology](#)

Next Offered: Spring/Summer 2021

[CPSY 607 Drugs and Human Behaviour](#)

Next Offered: Spring/Summer 2021

[CPSY 614 Psychology of Sport](#)

Next Offered: Spring/Summer 2021

[CPSY 620 Psychology of Immigration](#)

[CPSY 621 Psychology of Human Sexuality](#)

Next Offered: Spring/Summer 2021

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

[CPSY 707 Models of Stress and Adaptation](#)

Next Offered: Spring/Summer 2021

[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](#)

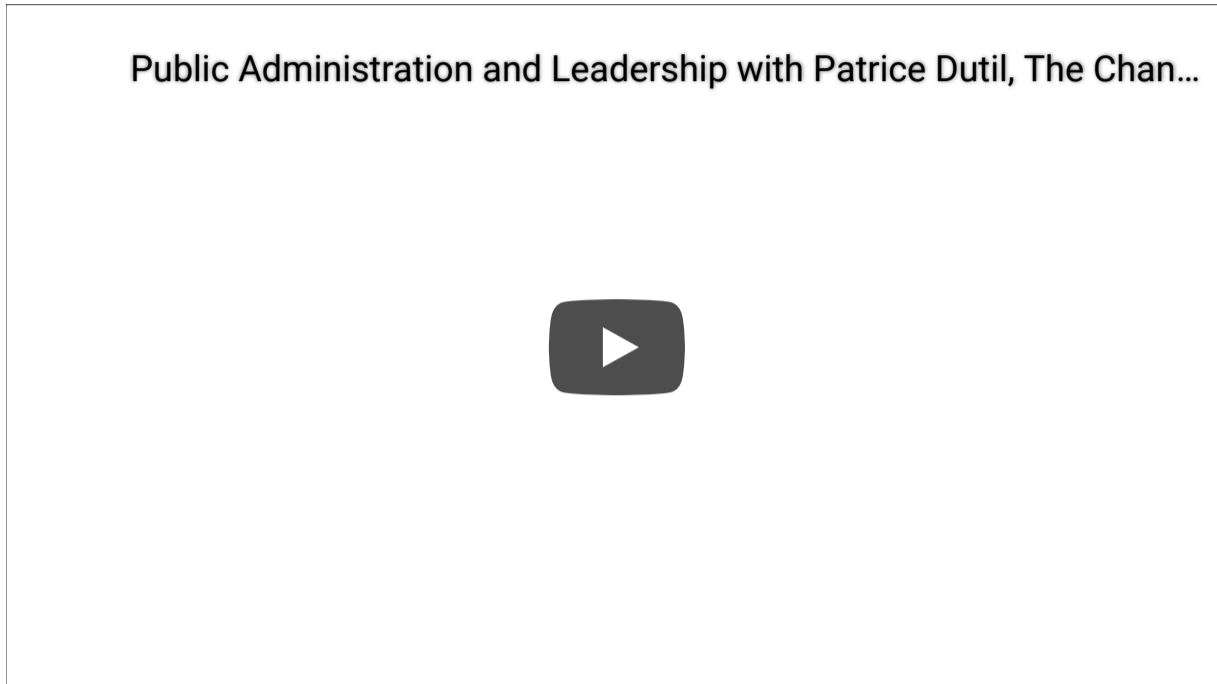
Next Offered: Spring/Summer 2021

[CPSY 941 Cross Cultural Psychology](#)

Public Administration and Leadership

Certificate

[Register now](#)



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

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

[CPPA 211 Public Policy](#)

Next Offered:Spring/Summer 2021

[CPPA 404 Issues in Public Administration](#)

[CPPA 501 Public Sector Leadership](#)

Next Offered:Spring/Summer 2021

Electives (select 3)

[CPPA 301 Administrative Law](#)

Next Offered:Spring/Summer 2021

[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

[Register now](#)

FULLY ONLINE

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
- resolve issues and challenges related to crisis communication and ethics
- 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), our fully online 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.

Online learning during the COVID-19 pandemic

We offer a full range of online courses for the Certificate in Public Relations, which provide high-quality, professional-level training. Our courses are developed and taught by industry professionals with the support of online learning specialists at The Chang School. (**Note:** Our online courses are not “virtualized” classroom courses.)

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**

Want to find out more 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](#)

Next Offered: Spring/Summer 2021

[CDPR 104 Planning Programming and Budgeting](#)

Next Offered: Spring/Summer 2021

[CDPR 105 Research and Program Evaluation](#)

Next Offered: Spring/Summer 2021

[CDPR 107 Public Relations Project](#)

[CDPR 111 Writing for Public Relations](#)

Next Offered: Spring/Summer 2021

Electives: 39-Hour Courses

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

[CDPR 106 Media Relations](#)

Next Offered: Spring/Summer 2021

[CDPR 108 Social Media in Public Relations](#)

Next Offered: Spring/Summer 2021

[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 2021

[CDPR 110 Reputation Management](#)

[CDPR 116 Public Relations Ethics](#)

Next Offered: Spring/Summer 2021

[CDPR 117 Crisis Communication](#)

- 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

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

[Register now](#)

FULLY ONLINE



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.

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](#)

Online learning during the COVID-19 pandemic

We offer a full range of online courses for the Certificate in Publishing. These award-winning courses are developed and taught by industry professionals with the support of online learning specialists at The Chang School. Through online modules, readings, exercises, discussion boards, assignments, and more, you have access to high-quality, professional-level training. (**Note:** Our online courses are not “virtualized” classroom courses.)

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 (May, June, and July) through our [Publishing Intensive](#). (Not available Summer 2021.)

Required Courses

[CDPB 100 Publishing Overview: Trade](#)

Next Offered: Spring/Summer 2021

[CDPB 200 Publishing Overview: Education](#)

Next Offered: Spring/Summer 2021

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](#)

Next Offered: Spring/Summer 2021

[CDPB 103 Production for Books, Journals, and Reports](#)

[CDPB 104 Introduction to Book Design](#)

[CDPB 105 Sales and Marketing for Book Publishers](#)

Next Offered: Spring/Summer 2021

[CDPB 110 Publicity for Book Publishers](#)

Next Offered: Spring/Summer 2021

[CDPB 201 Literary Rights Management](#)

[CDPB 202 Substantive and Stylistic Editing](#)

[CDPB 212 Visual Skills for Publishing](#)

Next Offered: Spring/Summer 2021

[CDPB 222 Copy and Stylistic Editing II](#)

Next Offered: Spring/Summer 2021

[CDPB 312 Practical Grammar and Punctuation](#)

Next Offered: Spring/Summer 2021

[CDPB 803 Digital Publishing and Production](#)

Next Offered: Spring/Summer 2021

This program offers the following benefits:

- Enrol right away – open admissions with no application required
- Complete the program from wherever you are, through a fully online format
- Build real industry experience by responding to postings for job and paid internship opportunities
- Finish your certificate faster through our summer Publishing Intensive (Due to the university-wide cancellation of in-person classes, the Intensive will not run in Summer 2021.)
- Apply for merit-based awards

Have questions? Contact Kelvin Kong and Meg Taylor, Academic Coordinators, at publish@ryerson.ca.

Electives: 19.5-Hour Courses

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

[CDPB 300 Children's Classics in the 21st C](#)

Next Offered: Spring/Summer 2021

[CDPB 301 Publishing for Children](#)

Next Offered: Spring/Summer 2021

[CDPB 302 Government Reports](#)

[CDPB 304 Scholarly and Reference Publishing](#)

Next Offered: Spring/Summer 2021

[CDPB 306 Trade Books: Fiction](#)

Next Offered: Spring/Summer 2021

[CDPB 309 Editing Books for Children and Teens](#)

Next Offered: Spring/Summer 2021

[CDPB 310 Proofreading for Books, Journals, and Reports](#)

Next Offered: Spring/Summer 2021

[CDPB 311 Indexing for Books, Journals, and Reports](#)

[CDPB 313 Mktg Books for Children and Teens](#)

Next Offered: Spring/Summer 2021

[CDPB 314 Legal Publishing](#)

Next Offered: Spring/Summer 2021

[CDPB 315 Editing Recipes and Cookbooks](#)

Next Offered: Spring/Summer 2021

What Will You Learn?

+

Who Should Take This Certificate?

+

Course Series in Children's Publishing

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

-

- Two required courses
- Six 39-hour electives
 - Two 19.5-hour courses are considered equivalent to 1 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.

Recommended Course Sequence

+

Course Delivery Schedule

+

Admission Criteria

-

Recommended:

- Undergraduate degree

OR

- Mature student status with related professional experience and education

If you are an undergraduate student in your final year, please contact the academic coordinators at publish@ryerson.ca.

Meet Our Recent Graduates

+

Frequently Asked Questions +

Why Register for the Certificate? +

Awards and Financial Aid +

Internships +

Contact Us +

Retail Management

Certificate

[Register now](#)

FULLY ONLINE

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

Note: Effective Fall 2020, the Certificate in Retail Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CQMS 102 has been removed as an elective

Required Courses

[CRMG 200 Intro to Retail and Services Management](#)

Next Offered: Spring/Summer 2021

[CRMG 302 Retail Consumer Insight](#)

Next Offered: Spring/Summer 2021

Electives (select 4)

[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

[CGMS 200 Introduction to Global Management](#)

Next Offered: Spring/Summer 2021

[CMHR 405 Organizational Behaviour](#)

Next Offered: Spring/Summer 2021

[CMHR 523 Human Resources Management](#)

Next Offered: Spring/Summer 2021

[CMKT 100 Principles of Marketing](#)

Next Offered: Spring/Summer 2021

[CRMG 301 Retail Operations Management](#)

[CRMG 303 Managing the Retail Workplace](#)

Next Offered: Spring/Summer 2021

[CRMG 400 Merchandise Buying and Planning I](#)

[CRMG 434 Intro to Logistics and Supply Chain Mgmt](#)

[CRMG 452 Visual Merchandising and Space Planning](#)

[CRMG 806 Retailer Perspectives on Category Management](#)

Next Offered: Spring/Summer 2021

[CRMG 902 Franchising](#)

[CRMG 907 Relationship Marketing](#)

Next Offered: Spring/Summer 2021

[CRMG 909 Merchandise Buying and Planning II](#)

Next Offered: Spring/Summer 2021

[Express Interest](#)

What Will You Learn?	+	CRMG 910 Omni-Channel Retailing
Who Should Take This Certificate?	+	CRMG 911 Retail Sales Management
Who Teaches the Courses?	+	CRMG 916 Managing B2B Channels
Industry and Careers	+	CRMG 919 Visualizing Data for Decisions Next Offered: Spring/Summer 2021
Recommended Course Sequence	+	
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

[Register now](#)

FULLY ONLINE

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](#)

Next Offered: Spring/Summer 2021

[CKRE 120 Programming Robotics Systems](#)

Next Offered: Spring/Summer 2021

[CKRE 130 Embedded Systems Hardware Architecture and Implementation](#)

[CKRE 140 Real-Time Embedded Systems Programming](#)

Next Offered: Spring/Summer 2021

[CKRE 150 Emerging Issues in Robotics and Embedded Systems](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

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

[Register now](#)



[View a recording of the online information session for Social Sciences and Humanities Foundations](#)

Enter access passcode: **9u!2!d6O** to view the video.

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.

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

[CSSH 105 Critical Thinking I](#)

Next Offered: Spring/Summer 2021

[CSSH 205 Academic Writing and Research](#)

Next Offered: Spring/Summer 2021

Electives – Group A: Humanities (select 2)

Students may select a course in Arabic (CARB), American Sign Language (CASL), Chinese (CCHN), French (CFRE), or Spanish (CSPN) 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](#)

Next Offered: Spring/Summer 2021

[CACS 210 Ideas that Shape the World: Antiquity](#)

[CENG 110 Literatures Across Borders](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

[CPHL 201 Problems in Philosophy](#)

[CPHL 333 Philosophy of Human](#)

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.

- Cumulative grade point average (GPA) of 1.0/+

*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 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

Nature

[CPHL 366 Existentialism and Art and Culture](#)

Next Offered: Spring/Summer 2021

Electives – Group B: Social Sciences (select 2)

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

Next Offered: Spring/Summer 2021

[CCRM 102 Introduction to Criminology](#)

Next Offered: Spring/Summer 2021

[CECN 104 Introductory Microeconomics](#)

Next Offered: Spring/Summer 2021

[CECN 204 Introductory Macroeconomics](#)

Next Offered: Spring/Summer 2021

[CEUS 102 Environment and Sustainability](#)

[CEUS 202 Sustaining the City's Environments](#)

[CGEO 131 Energy, Earth and Ecosystems](#)

[CGEO 151 Location, Location, Location](#)

Next Offered: Spring/Summer 2021

[CPOG 100 People, Power and Politics](#)

[CPOG 110 Power and Influence in Canadian Politics](#)

[CPPA 101 Cdn Public Administration I: Institutions](#)

Next Offered: Spring/Summer 2021

[CPPA 102 Cdn Public Administration II: Processes](#)

Next Offered: Spring/Summer 2021

[CPSY 102 Introduction to Psychology I](#)

Next Offered: Spring/Summer 2021

[CPSY 202 Introduction to Psychology II](#)

Next Offered: Spring/Summer 2021

[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](#)

Next Offered: Spring/Summer 2021

Strategic Marketing Management

Certificate

[Register now](#)

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 Management 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 Marketing 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

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

[CMKT 100 Principles of Marketing](#)

Next Offered: Spring/Summer 2021

[CMKT 300 Marketing Metrics and Analysis](#)

Next Offered: Spring/Summer 2021

Electives (select 4 or 5)

[CGMS 522 International Marketing](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CMKT 400 Understanding Consumers and the New Media](#)

Next Offered: Spring/Summer 2021

[CMKT 500 Marketing Research](#)

Next Offered: Spring/Summer 2021

[CMKT 504 Effective Persuasion](#)

Next Offered: Spring/Summer 2021

[CMKT 510 Innovations in Marketing](#)

Next Offered: Spring/Summer 2021

[CMKT 535 Integrated Marketing Communications](#)

Next Offered: Spring/Summer 2021

[CMKT 600 Integrated Case Analysis](#)

Next Offered: Spring/Summer 2021

[CMKT 700 Business Intelligence/Decision Modeling](#)

Next Offered: Spring/Summer 2021

[CMKT 702 Advanced Marketing Management](#)

[CMKT 723 Services Marketing](#)

Next Offered: Spring/Summer 2021

[CMKT 730 Assessing/Managing Market Opportunities](#)

[CMKT 731 Competitive Intelligence](#)

[CMKT 828 Sport Marketing Concepts and Strategy](#)

[CMKT 829 International Sport](#)

Note: Effective Fall 2020, the Certificate in Strategic Marketing Management has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

- CMKT 535 has been added as an elective

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.ryerson](#) (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 +

Sustainability Management and Enterprise Process Excellence

Certificate

[Register now](#)

FULLY ONLINE



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](#)

Next Offered: Spring/Summer 2021

[CKSS 101 Fundamentals in Sustainability II](#)

Next Offered: Spring/Summer 2021

[CKSS 210 Lean Six Sigma Contin Improvement](#)

[CKSS 211 Lean Six Sigma Sust Bus Enterprise](#)

Next Offered: Spring/Summer 2021

Electives (select 2)

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

[CECN 510 Environmental Economics](#)

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

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CHTT 510 Sustainable Tourism: the Golden Goose?](#)

[CKAR 500 Sustainable Buildings](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CKLA 400 Ecology and Sustainable Landscapes](#)

Next Offered: Spring/Summer 2021

[CKLA 450 Landscape Restoration](#)

[CKSS 102 Designing a Sust-Enterprise](#)

[CKSS 201 Sustainability Topics and Trends](#)

[CKSS 212 Lean Six Sigma Quality Assurance](#)

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.

Note: Effective Fall 2020, the Certificate in Sustainability Management and Enterprise Process Excellence has been revised. Students who were formally registered in the certificate prior to July 2, 2020, must complete the curriculum requirements that were in effect at the time of their registration. For curriculum details, please refer to the [archived calendar](#) for your year of registration.

[CTEC 210 Fundamentals of Project Management](#)

Next Offered: Spring/Summer 2021

[CTEC 241 Energy Innovation](#)

[CTEC 264 Trends in Smart Grid](#)

Next Offered: Spring/Summer 2021

[CTEC 269 Trends in Energy Conservation](#)

Next Offered: Spring/Summer 2021

[CTEC 282 Public Policy in Energy](#)

Next Offered: Spring/Summer 2021

[CVFN 410 Understanding Urban Agriculture](#)

[CVFN 411 Dimensions of Urban Agriculture](#)

[CVFN 412 Practicing Urban Agriculture](#)

Next Offered: Spring/Summer 2021

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

[CZMN 200 Corporate Responsibility & Sustainability](#)

Next Offered: Spring/Summer 2021

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** +

Urban Agriculture

Certificate

[Register now](#)

NEW FOR FALL 2020

FULLY ONLINE



Ryerson University's Urban Farm

Urban agriculture is a growing field, contributing to the sustainability and planning for resilient city regions.

This four-course, fully-online certificate equips you with the knowledge, skills, and practical experience to address food system challenges in local and global contexts.

You will learn about the technical aspects and different types of urban agriculture, as well as explore policy and governance issues for strengthening the sustainability and resilience of urban communities and healthy, livable food-growing cities of the future.

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

[CVFN 410 Understanding Urban Agriculture](#)

Required Elective (select 2)

[CVFN 411 Dimensions of Urban Agriculture](#)

[CVFN 412 Practicing Urban Agriculture](#)

Next Offered: Spring/Summer 2021

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

General Elective (select 1)

[CENT 500 New Venture Startup](#)

Next Offered: Spring/Summer 2021

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

Next Offered: Spring/Summer 2021

[CFNY 408 Urban Food Security](#)

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

[CKLA 400 Ecology and Sustainable Landscapes](#)

Next Offered: Spring/Summer 2021

[CKSS 100 Fundamentals in Sustainability I](#)

Next Offered: Spring/Summer 2021

[CVFN 400 Practicum/Project in Urban Agriculture](#)

Next Offered: Spring/Summer 2021

What Will You Learn?

+

Who Should Take This Certificate?

+

Who Teaches the Courses?

+

Industry and Careers

+

Certificate Requirements

—

- One required course
- Two required electives
- One general elective

- One general elective
- Cumulative grade point average (GPA) of 1.67+

Recommended sequence

+

Admission Criteria

-

Recommended:

- OSSD with six Grade 12 U or M credits (including English), with a minimum average of 60 percent, or equivalent

OR

- mature student status with relevant work experience

Related Programs

+

Contact Us

+