Ryerson University | The Chang School of Continuing Education

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Course Series

Earn a Professional Development Award or Academic Achievement Award by taking just 2–4 courses. A course series is a grouping of courses in a defined area that you can use to boost your knowledge or skills.

Once you have successfully completed the courses, please submit the Request for Professional Development Award (PDA) form ⬚ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

View by Areas of Study | View Alphabetically

3-D Printing, Visualization, and Agile Product Prototyping

Advanced Make-Up Artistry and Special Effects

American Sign Language (ASL)

Applied Analytics and Statistics for 21st Century Decision-Making

Architectural Preservation

Architectural Technologists Professional Career Foundations

Arts and Entertainment Administration

Blockchain for Business

CATIA Engineering Design

Cannabis Essentials

Caring Clown

Children's Publishing

Coding, Programming, and Algorithms: Computer Science Fundamentals

Colour Management Systems

Computer Applications

Computer Programming for Game Developers

Conservation and Renewal of Urban Buildings

Costume Specialties

Creative Photography

Creative Writing

Cybersecurity

Drone/RPAS Ground School

Early Childhood Mental Health and Well-Being

EarlyON Child and Family Centres

Entrepreneurship and Small Business

Family Supports and Community Engagement

Film Production Techniques Using Mobile Devices

Financial Predictive Data Analytics

Fine Art Practice

Gender and Sexuality

Hadoop, Python, and Tableau Big Data Tools

Health Ethics

Health Informatics

Health Services Management

Immigration and Settlement Studies

Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video

Intercultural Communication in the Canadian Workplace (ICCW)

Interdisciplinary Conflict Resolution and Team Building

Interdisciplinary Studies: Community Partnerships

Interdisciplinary Studies: Interdisciplinary Program Management

Interdisciplinary Studies: International Field Experience

Internationally Trained Medical Doctors (ITMD) Bridging Program

Introduction to Health Data Analytics

Introduction to Privacy, Access, and Information Management

Introductory Accounting

Leadership in Accessibility and Inclusion

Leading and Planning for Patient Experience

Lean Six Sigma and Sustainable Industry Enterprise

Marketing Innovation

3-D Printing, Visualization, and Agile Product Prototyping

Course Series

Learn to execute agile product design, product sculpture, and prototyping with 3-D printers. Realize your designs, animations, and product prototypes using 3-D printers.

In each course, you will prepare a 3-D model ready for optional 3-D printing at Ryerson University's 3-D Printing Lab.

This is an Open Admissions program to help you advance or change your career.

No previous background is required.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Required Courses (select 4) ▬

CKCS 230 Intro to SOLIDWORKS for 3-D Printing

CKCS 231 Product 3-D Animation/Rendering

CKCS 232 3-D Printing: Agile Prototyping

CKCS 233 Product Design for 3-D Printing

CKCS 234 Product Drawing for 3-D Printing

What Will You Learn?   ＋

Who Should Enrol?   ＋

Fast Track Option   ＋

Industry and Careers   ＋

Course Series Requirements   ▬

- Successful completion of 4 required courses

Supplies to be purchased by the student:
You are required to purchase (or already own) the following software: Pixologic ZBrush and ZSpheres, Autodesk Mudbox, SOLIDWORKS, DynaMesh, and 3-D computer graphics software that saves objects in the STL (stereolithography) format. As well, you must own or have access to a laptop, tablet, tablet pen, and an external hard drive.

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Recommended Sequence   ＋

Contact Us +

Additional Details +

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Advanced Make-Up Artistry and Special Effects

Course Series

The Chang School is proud to offer a comprehensive three-course series in Advanced Make-Up Artistry and Special Effects. Focusing on make-up artistry in film, TV, theatre, and photography, you'll learn the latest techniques and receive professional advice about succeeding in the business.

If you're thinking of beginning a career in make-up artistry, The Chang School is the place to start. And if you're already in the field but are looking to perfect your knowledge and skills, we've got the courses to help expand your career options.

Once you've successfully completed all three courses, you'll receive a Professional Development Award. This credential is widely recognized and respected across the make-up and entertainment communities.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Want to find out more about the **Course Series in Advanced Make-Up Artistry and Special Effects?** Express interest to connect with this program and receive updates.

Express interest ⧉

Required Courses —

[CDTH 431 Make-Up Artistry for Film Video and TV](#)

[CDTH 435 Special Effects Make-Up for Stage and Screen](#)

[CDTH 448 Introduction to Make-Up Techniques for Theatre and Film](#)

Course Design ✚

Your Instructor ✚

Course Series Requirements ━

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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American Sign Language (ASL)

Course Series

Learn American Sign Language (ASL), the most commonly used sign language for Deaf communities in Canada, the United States, and many other countries around the world.

ASL employs a range of movements in the hands, face, and body. ASL has been used for over 250 years, and is now estimated to be used more than 500,000 people in Canada and the US.

All courses within this course series are delivered in class, allowing you to practise with your instructors and fellow students.

You will learn from a combination of lectures, in-class demonstrations, dialogues, conversations, videos, and practice using audiovisual support.

What Will You Learn?   ✚

Who Should Take This Course Series?   ✚

Course Series Requirements   ▬

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses (select 2)   ▬

CASL 101 Introductory American Sign Language I
Next Offered:Spring/Summer 2021

CASL 201 Introductory American Sign Language II
Next Offered:Spring/Summer 2021

CASL 301 Intermediate American Sign Language I
Next Offered:Spring/Summer 2021

CASL 401 Intermediate American Sign Language II

Applied Analytics and Statistics for 21st Century Decision-Making

Course Series

Learn to analyze data and statistics, forecast predictions, and execute real-world, predictive analysis projects (including using SAS) to provide evidence-based decision-making.

This program offers a focused grounding in 21st century applied statistical and analytical skills in the most up-to-date techniques in statistical analysis that are sought after in today's workplace. It is open to anyone who is interested in a professional career in business, industry, government, or research.

No previous background is required.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?   ✛

Who Should Enrol?   ✛

Who Teaches the Courses?   ✛

Industry and Careers   ✛

Recommended Course Sequence   ✛

Course Series Requirements   ▬

The professional development award may be achieved in one of the following ways:

- Successful completion of courses in Option 1 (CIND 123, (CMTH 304 or CMTH 380), and CMTH 404)

OR

- Successful completion of courses in Option 2 (CIND 123, and CQMS 210)

Note: Course selections may not be combined from both groups.

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⤢ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Required Courses (Option 1)   ▬

The professional development award may be achieved completing courses in either this Option or Option 2.
You may only select one of CMTH 304 or CMTH 380.

CIND 123 Data Analytics: Basic Methods
Next Offered:Spring/Summer 2021

CMTH 304 Probability and Statistics I

CMTH 380 Probability and Statistics I
Next Offered:Spring/Summer 2021

CMTH 404 Probability and Statistics II

Required Courses (Option 2)   ▬

The professional development award may be achieved completing courses in either this Option or Option 1.

CIND 123 Data Analytics: Basic Methods
Next Offered:Spring/Summer 2021

CQMS 210 Applied Statistics for Business
Next Offered:Spring/Summer 2021

Related Certificates +

Contact Us +

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Architectural Preservation

Course Series

This is a highly technical program consisting of courses focused on subjects related to building renovation, restoration and rehabilitation, and historical preservation and conservation. The program is designed to provide graduates with specific knowledge and skills in architectural preservation and conservation.

No previous background is required.

Learn to design and execute renovations, restorations and rehabilitations and historical preservation and conservation of buildings.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?   ＋

Who Should Enrol?   ＋

Who Teaches the Courses?   ＋

Industry and Careers   ＋

Recommended Sequence   ＋

Course Series Requirements   �－

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ＋

Required Courses   －

[CKAR 205 Building Codes and Regulations](#)

[CKAR 310 Materials and Methods](#)
Next Offered:Spring/Summer 2021

[CKAR 601 Building Science for Architectural Preservation and Conservation](#)
Next Offered:Spring/Summer 2021

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Architectural Technologists Professional Career Foundations

Course Series

Learn the latest in Canadian best practices and standards for materials and methods, building codes, and sustainable buildings' mechanical and electrical systems.

This program offers the solid foundational educational requirements and skill sets necessary to begin preparation toward accreditation as an architectural technologist. It is intended for those aspiring to be architectural technologist professionals who are currently in high demand with employers in architectural firms, governments, and construction companies.

No previous background is required.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this four-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses ➖

CKAR 205 Building Codes and Regulations

CKAR 215 Computer-Aided Architectural Drawing
Next Offered:Spring/Summer 2021

CKAR 310 Materials and Methods
Next Offered:Spring/Summer 2021

CKAR 500 Sustainable Buildings
Next Offered:Spring/Summer 2021

What Will You Learn? ➕

Who Should Enrol? ➕

Who Teaches the Courses? ➕

Industry and Careers ➕

Course Series Requirements ➖

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Recommended Sequence ➕

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Arts and Entertainment Administration

Course Series

If you work in the cultural sector as an individual or as a group, Ryerson University's G. Raymond Chang School of Continuing Education can help you develop entrepreneurial skills to support your creative work through a course series in Arts and Entertainment Administration. The course series provides learners with a blend of practical and theoretical instruction in a format that arts managers, potential arts managers, and individual artists will find suitable for their experience. The instruction addresses issues for both the for-profit and not-for-profit sectors.

Each course is taught by a seasoned professional who works in the cultural industry and who can help you develop confidence in learning to build your business.

Want to find out more about the **Course Series in Arts and Entertainment Administration?** Express interest to connect with this program and receive updates.

Express interest ⧉

Required Courses ―

[CDAM 100 Making a Living in the Arts](#)

[CDAM 102 Audience Outreach and Engagement](#)

[CDAM 103 Progmmatic Mktng for Arts and Ent](#)

[CDAM 104 Social Media Mktng Arts and Ent](#)

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Answers to Frequently Asked Questions   +

Industry Feedback   +

Message From the Academic Coordinator   +

Course Series Requirements   ―

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Blockchain for Business

Course Series
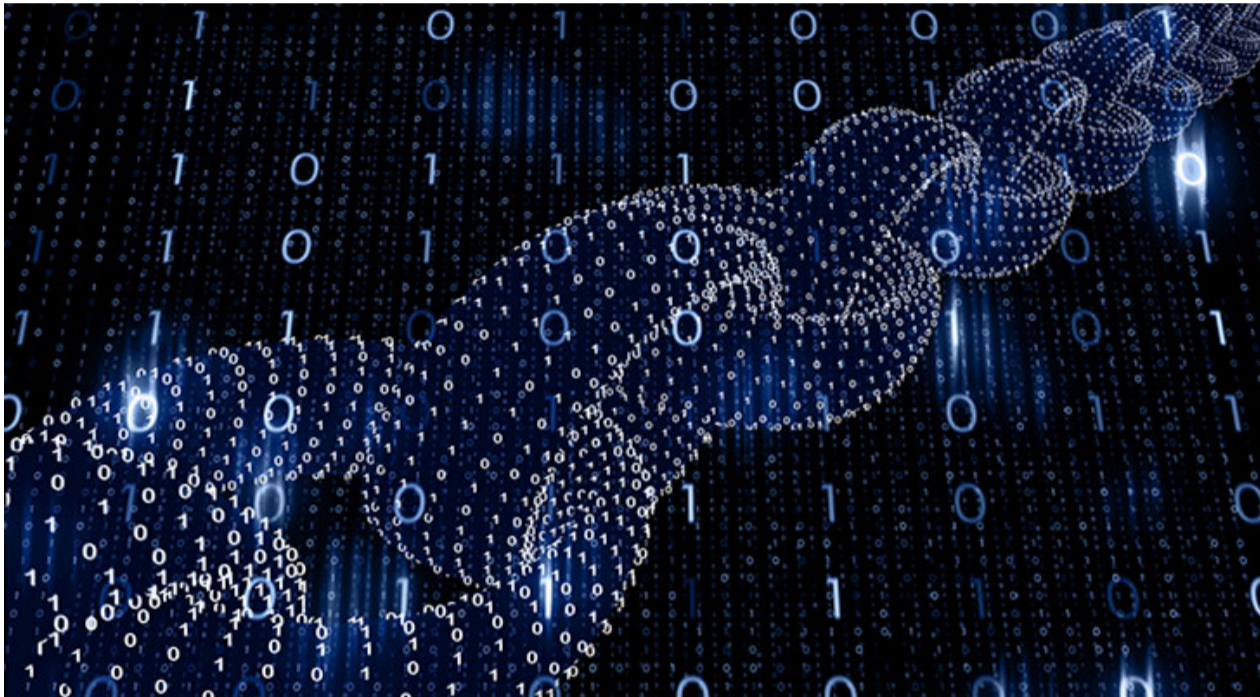
Blockchain for Business ➖

CZIT 200 Blockchain Architecture and Applications
Next Offered:Spring/Summer 2021

CZLW 200 Blockchain: Risk Management

For many, blockchain is all about "cryptocurrencies", such as Bitcoin, however, the applications of blockchain are much broader than financial transactions. In fact, blockchain technology has been deemed as significant an invention as the Internet.

Blockchain has the potential to change business processes and models in a distributed and decentralized manner. This technology is deemed to be transformative for businesses across the world, transcending industries and geographies alike. Any business that makes use of an intermediary to verify transactions could make use of blockchain technology.

This course series aims to help fill a knowledge gap for professionals seeking essential knowledge in the ways in which blockchain technology works and how it can be applied effectively to solve business problems.

🗹 **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 ⤢

Worldwide spending on blockchain solutions is expected to grow from **1.5 billion in 2018** to an estimated **15.9 billion by 2023.**

(Statista, 2020)

2018

2023

$1.76tn

Blockchain has the ability to add **$1.76tn** to the global economy by **2030.**

(PWC, Time for Trust Report, 2020)

What Will You Learn ✚

Who Should Take This Course Series? ✚

Who Teaches the Courses? ✚

Industry and Careers ✚

Recommended Course Sequence ✚

Admission Criteria ▬

This is an open admissions program, which means you can enrol in the blockchain courses right away. No prior background is required.

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CATIA Engineering Design

Course Series

This program provides students with foundational, applied, and academic knowledge and skill sets in CATIA design. The courses offer students a comprehensive picture of current best practices in CATIA design and real-life industry applied case studies. They allow students to meet their individual interests in extending their knowledge and skills needed to support engineering design and product development. This knowledge and applicable skill set will be useful for technical digital practitioners whether they are serving on commercial, para-public, national defence, municipal, provincial, and national or international structural design projects or product development projects.

No previous background is required.

You will have the opportunity to acquire and use technical skill sets and best practices in CATIA design, together with analyses of real-life industry and engineering case studies. You will learn to transform and execute CAD system logistics with CATIA as products and design contexts change.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this 2 course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses   ▬

[CKAE 100 CATIA Engineering Design I](#)

[CKAE 101 CATIA Engineering Design II](#)

[CKAE 102 CATIA Engineering Design III](#)

What Will You Learn?   ✚

Who Teaches the Courses?   ✚

Industry and Careers   ✚

Recommended Sequence   ✚

Course Series Requirements   ▬

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Cannabis Essentials

Course Series

Required Courses (select 2) —

CZEN 420 The Business of Cannabis
Next Offered: Spring/Summer 2021

CZLW 420 Cannabis Law for Business

CKBG 420 Trends in Cannabis Science

Our unique suite of cannabis courses provides you with essential skills for success in Canada's hottest new industry!

Designed and delivered by industry experts, our three courses prepare you with the business, regulatory, and plant science fundamentals that will help you start your own business or join an expanding team. Successfully complete two of the three courses and earn a Professional Development Award.

📋 **Not ready to enrol but want to learn more?**

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

Express interest ⬈

Cannabis Courses

CZEN 420 The Business of Cannabis

A "Cool Course" in the 2019 *Maclean's Canadian Universities Guidebook* ⬈**!**

Building on Ryerson's expertise in entrepreneurship education, this course includes industry guest speakers who will discuss a range of topics, including financing for cannabis businesses and the complex regulations pertaining to the cultivation, processing, distribution, marketing, and selling of cannabis.

CZLW 420 Cannabis Law for Business

This course provides an understanding of the cannabis industry's complex regulatory environment, which is essential for strategic business decision-making. You will interpret important legislation from a business perspective and examine how to effectively bring

from a business perspective and examine how to effectively bring cannabis products (including edibles) to market by considering various issues, including marketing and advertising, intellectual property, and import/export.

CKBG 420 Trends in Cannabis Science

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

Who Should Enrol?   +

Who Teaches the Courses?   +

Industry Advisors   +

Online enrolment and profile creation will be unavailable in 102 minute(s).
Site maintenance: Tue, Mar 16, 09:00 PM (ET) to Tue, Mar 16, 10:00 PM (ET)

🛈 **COVID-19 updates and resources for students, faculty and staff**

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Caring Clown

Course Series

Required Courses   —

CSCC 900 Caring Clown I

CSCC 910 Caring Clown II

CSCC 911 Caring Clown Practicum

Want to embark on a unique and purposeful learning experience?

Give back to your community and help improve the quality of life of long-term care residents. Explore your sense of fun and your compassionate spirit.

The Caring Clown course series combines basic clowning skills of spontaneity, playfulness, and humour with compassion and caring. Added to the mix are music and movement. No special skills are required – just a willingness to learn and be open to new challenges!

Clowns come from all walks of life. Some have been teachers, social workers, lawyers, engineers or business professionals. Most are retired, but many also work part-time. Although Caring Clowns wear red noses, their costumes and characters are reflective of eccentric cousins, aunts, or uncles you may remember growing up.

Caring Clowns serve residents who generally have mid to advanced dementia. Many of the residents are confined to wheelchairs, and are isolated, lonely, and in need of cheer.

This course series is part of Programs for 50+ and Community Engagement at The Chang School.

☑ **Celebrating 10 Years of Caring Clown**

In celebration of 10 years of creativity, humour, and compassion, our partners at The City of Toronto Seniors Services and Long-Term Care Division put together this moving video tribute to the Caring Clown program.

Who Should Take This Course Series?   +

What Will You Learn?   +

Testimonials   +

How to Enrol in Courses   +

Caring Clown in the News   +

Toronto Challenge   +

Course Series Requirements   −

- **Successful completion of 3 required courses**

Connect with Us on Facebook   +

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Children's Publishing

Course Series

This course series is intended for individuals who wish to specialize in this dynamic and growing sector within the book publishing industry. Toronto is the centre for children's publishing in Canada, and Canada is a recognized leader in children's publishing worldwide. In-depth training in children's publishing will prepare our students for entry into this vibrant sector.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Get real industry experience by responding to postings for job and paid internship opportunities**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use these courses towards the Certificate in Publishing**
- **Apply for merit-based awards**

Want to find out more or ask a question about the **Course Series in Children's Publishing?** Connect with this program by email.

Email us ⤢

Required Courses   ━

CDPB 300 Children's Classics in the 21st C
Next Offered:Spring/Summer 2021

CDPB 301 Publishing for Children
Next Offered:Spring/Summer 2021

CDPB 309 Editing Books for Children and Teens
Next Offered:Spring/Summer 2021

CDPB 313 Mktg Books for Children and Teens
Next Offered:Spring/Summer 2021

Course Series Requirements   ＋

Related Certificate   ━

The courses in this program may be applied to the Certificate in Publishing.

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Colour Management Systems

Course Series

New

Companies choose brand and product colours to enhance recognition and gain advantage in the marketplace, and accurate, consistent print and digital output is essential. Through this course series, gain a fundamental understanding of colour and colour management systems, and learn how to effectively manage colour across different platforms for both print and packaging using industry standard practices, tools, and procedures.

The three courses in this series combine theory with hands-on learning to increase your colour management skills and knowledge – practice what you've learned in state-of-the art colour management labs. This series is suitable for industry professionals looking to increase their colour management competency beyond an introductory level.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Course Series Requirements   —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Want to find out more about the **Course Series in Colour Management Systems?** Express interest to connect with this program and receive updates.

Express interest ⬈

Required   —

CDGA 110 Colour Management - Intro

CDGA 120 Colour Management - Printing

CDGA 130 Colour Management - Packaging

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Costume Specialties

Course Series

Theatrical costumes are created to meet the aesthetic and physical needs of a production, using specialized techniques and methods to achieve the custom designs created for the fantastical world of performance. The Course Series in Costume Specialties offers creative artists from any field – including theatre, fashion, textile, and visual arts – an opportunity to explore and develop creative practice in a studio setting.

Want to find out more about the **Course Series in Costume Specialties?** Express interest to connect with this program and receive updates.

Express interest ⧉

Required Courses   ▬

[CDTH 460 Costume Painting and Dyeing](#)

[CDTH 461 Costume Specialty Building](#)

[CDTH 462 Costume Surface Design](#)

The courses offer instruction and information for people interested in pursuing theatrical training part-time, costume and cosplay artists wishing to expand their skill set, and artisans wishing to gain alternative techniques and knowledge to incorporate into their own practice.

Through practical studio courses in a specific costume art or topic, you will not only survey a subject, but also gain problem-solving skills as you determine how to apply newly acquired skills and knowledge to creative projects. Classes begin with a short lecture and demonstration followed by hands-on exercises.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Answers to Frequently Asked Questions   ➕

Course Series Requirements   ▬

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ➕

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Coding, Programming, and Algorithms: Computer Science Fundamentals

Course Series

This program is designed for individuals who wish to become coders and computer programmers in software engineering. It provides training in the most popular programming languages (Java, C, and Python) and operating system (UNIX). In addition, this course series fulfils part of the prerequisite requirements for individuals to apply to Ryerson University's Master of Data Science and Analytics ⧉ program.

No previous background is required.

You will learn to program and code professionally in the most popular programming languages among employers: Python, Javascript, and C++.

Acquire skills and techniques for maintaining an operating system (UNIX).

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?	+

Who Teaches the Courses?	+

Industry and Careers	+

Recommended Sequence	+

Course Series Requirements	—

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us	+

Required Course —

CCPS 305 Data Structures
Next Offered:Spring/Summer 2021

Electives (select 2) —

CCPS 109 Computer Science I
Next Offered:Spring/Summer 2021

CCPS 209 Computer Science II
Next Offered:Spring/Summer 2021

CCPS 616 Algorithms

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Computer Applications

Course Series

This course series is intended for individuals who have an interest in keeping up with the latest and hottest computer-specific applications, technology, and software. Students may take any combination of three courses in the series, in any order.

Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Required Courses (select 3) —

[CIND 108 Data Analytics for Non-Data Analysts](#)

[CKCS 900 Introduction to C++](#)

[CKCS 901 Introduction to Cloud Computing](#)

[CKCS 902 Digital Speech Processing](#)

[CKCS 903 Fundamentals of Speech Recognition](#)

[CKCS 904 Introduction to Eye Tracking](#)

[CKCS 905 Contracting for Cloud Computing](#)

[CKCS 910 Fast Track in SEO](#)

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Computer Programming for Game Developers

Course Series

This program teaches 3-D Unity and Autodesk's Maya (in a computer lab) to equip students with the programming and scripting skills set to develop, on server-based and mobile devices, a range of commercial and serious games such as video games, learning games, "training interactive", and augmented reality simulations and applications. The project-centred approach provides hands-on engaging computer programming application and game development that are closely analogous to work projects that the students will experience in their real-world work as game developers.

Course Series Requirements   —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option   +

Contact Us   +

Required Courses   —

CKCS 170 C++ and CSharp.net for Game Dev

CKCS 171 Math for Game Dev Design

CKCS 172 Game Mechanics for Game Dev

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Conservation and Renewal of Urban Buildings

Course Series

In this program, students master solutions associated with existing asset evaluation of damage and deterioration; preservation and rehabilitation of existing assets and urban spaces; repair and re-use of materials associated with cost control; and best practices in adaptive re-use and sustainability. Topics include management and renewal of public and private physical assets, including built infrastructure, and fixed plants such as urban buildings, airports, hospitals, broadband networks, and interior and open-air private and public spaces.

No previous background required.

You will learn to design and execute repairs, renovations, restorations and rehabilitations of urban buildings and infrastructures using up-to-date SMART building practices.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education

Required Courses ▬

CKAM 160 Infrastructure Repair

CKAM 170 Sustainable Building Design

CKAM 180 Preservation and Future Assets

What Will You Learn? ✚

Who Should Enrol? ✚

Who Teaches the Courses? ✚

Industry and Careers ✚

Recommended Sequence ✚

Course Series Requirements ▬

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⤢ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Creative Photography

Course Series

If you have a passion for photography, welcome to the Course Series in Creative Photography. Short-term courses between 12 and 24 hours in the evenings, and/or weekends, will test your creative abilities. Landscape, documentary, websites, portfolio development, portraits, and even pinhole digital imaging are some of the courses offered. Courses will be taught by professional photographers who work in the industry and who will help you create your ideas.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use applicable courses towards the Certificate in Photography Studies**
- **Exhibit your creative work through special events**
- **Apply for merit-based awards**

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.**

Want to find out more about the **Course Series in Creative Photography?** Express interest to connect with this program and receive updates.

Express interest ⧉

Course Series Requirements ▬

- Successful completion of 3 required courses (totalling a minimum of 60 hours)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

The Chang School Photography Exhibition ✚

Contact Us ✚

Required Courses (select 3) ▬

Select a minimum of 3 courses, totalling a minimum of 60 hours.

CDFP 312 Art Direction for Ad Agencies

CDFP 318 Photographing in the Field

CDFP 319 Documentary Project

CDFP 355 Digital B&W Photography

CDFP 388 Pinhole Digital Images

CDFP 414 Traditional Photography

CDFP 417 Night Photography

CDFP 418 Landscape Photography

CDFP 419 Exploring Toronto Landscapes

CDFP 420 Making a Photographic Book

CDFP 421 The Interpretive Portrait

CDFP 422 Commercial Portraits

CDFP 423 The Portable Portrait Flash

CDFP 424 Introduction to Lightroom

CDFP 425 Lightroom Advanced

CDFP 432 Digital Printing Workshop

CDFP 907 Using a 4X5 View Camera

CDFP 908 Using Your Digital Camera

CDFP 915 The Travelling Camera

CDFP 924 Gallery Hopping

CDFP 925 Smartphones as a Fine Art Tool

CDFP 929 The Business of Photography

CDFP 945 Creative Child and Animal Portraits

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Creative Writing

Course Series

Welcome to the writing life at The Chang School!

Have you been holding on to an idea for a story for a long time? Have you wanted to develop a writing practice but don't know where to start? Maybe you already have a project on the go, but want to know how to take it to the next stage in its development.

Our goal is to jump-start your creativity and guide you through the craft of writing in various genres. Classes are small and students quickly form a community of emerging writers. Whether you are getting your feet wet with a beginner's course or making the final touches on your novel, we have a course to fit your needs.

Creative writing is both a craft and an art. Workshops allow students to dip a toe into the world of imaginative writing and then continue with more advanced workshops in a variety of genres.

We welcome beginners and advanced writers, and everyone in between.

What You Can Expect

- **Small classes with a hands-on approach:** From the first class, you'll roll up your sleeves and start writing.
- **Constructive and supportive feedback on your work:** Our courses feature lively, useful discussions on matters of craft and finding your voice.
- **Tips on how to get published:** Many of our students have published their work in journals, newspapers, magazines, and books.
- **Expert, award-winning instructors:** Visit our Instructor Profile Directory to read instructor biographies.

Earn a Professional Development Award in Creative Writing

Creative Writing workshops are non-credit, but students who successfully complete a minimum of three courses, totalling a minimum of 60 hours, are eligible to earn a Professional Development Award from The Chang School. You can also take more than three courses if you wish.

Want to find out more about the **Course Series in Creative Writing?** Express interest to connect with this program and receive updates.

Express interest ⧉

Required Courses (select 3)   —

Select a minimum of 3 courses, totalling a minimum of 60 hours.

CWWR 110 Introduction To Creative Writing
Next Offered:Spring/Summer 2021

CWWR 120 Writing Poetry

CWWR 130 Creative Nonfiction Essay Writing

CWWR 336 True to Life: Writing Your Own Story

CWWR 410 Short Fiction Writing - Level I
Next Offered:Spring/Summer 2021

CWWR 411 Short Fiction Writing - Level II

CWWR 415 Fiction and Non-Fiction Writing
Next Offered:Spring/Summer 2021

CWWR 420 Novel Writing - Level I

CWWR 446 Writing Television Situation Comedy

CWWR 514 Works in Progress: Writing Workshop

CWWR 952 Creative Travel Writing
Next Offered:Spring/Summer 2021

See Course Series Requirements for more information.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Jessica Westhead's *Worry* Recognized on CBC's Canada Reads 2020 Longlist

Chang School instructor Jessica Westhead's new novel, *Worry* ☑, has secured a place on the CBC Canada Reads 2020 longlist ☑. This year's theme is "one book to bring Canada into focus".

Jessica teaches both Short Fiction Writing - Level I (CWWR 410) and Creative Travel Writing (CWWR 952) in the Course Series in Creative Writing.

Congratulations, Jessica!

Testimonials $+$

Our Students' Success $+$

Course Series Requirements $-$

- Successful completion of 3 required courses (totalling a minimum of 60 hours)

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ☑ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Technical Knowledge Not Required $+$

Contact Us $+$

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Cybersecurity
Course Series

New for Fall 2020

Computer Security and Digital Forensics

▶

Cybercrime is at an all-time high and has the potential to affect everyone. The Canadian labour market has an acute shortage of technically and analytically skilled experts needed to fill cybersecurity professional jobs that can help thwart this global threat. Canadian employers lament that they can't fill the large number of roles.

To address this, The G. Raymond Chang School of Continuing Education has created a new, fully online Cybersecurity Fast Track Course Series program as part of the federal government's mandate to offer Canadians and Permanent Residents a four-week, open admissions, career-ready program in cybersecurity.

This program may be financed using the Canada Tax Credit Benefit. As part of your tuition, you may request at any time pre-arranged phone meetings with our cybersecurity tutor or with your course instructors.

In this two-course course series, comprising 78 hours of instruction, students gain hands-on, experiential learning by applying open-source cybersecurity technical applications. Specialized software and tools are also used in order to perform penetration testing, digital

Required —

CKDF 110 Computer Network Security
Next Offered:Spring/Summer 2021

CKDF 130 Digital Forensics Systems
Next Offered:Spring/Summer 2021

Specialized software and tools are also used in order to perform penetration testing, digital forensics, data protection, and network privacy solutions in private and public sector closed networks and cloud-based enterprise environments.

Various security techniques that are essential for any security professional will be introduced using state of the art virtual desktop infrastructure environment. The environment will have many virtual machines with pre-installed and configured tools to perform the various tasks expected from a security professional.

This course series will also cover some of the most popular techniques, including, CIA Triad, the different types of hacking, auditing, digital forensic, and incident response. Digital forensic techniques are used in the evidentiary process and the various methodologies intrinsic to computer forensics with an emphasis on computer incident response and information system protection.

For more information, email Program Director Anne-Marie Brinsmead at a2brinsm@ryerson.ca and Academic Coordinator Alex Ferworn at aferworn@ryerson.ca

☑ **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 Teaches the Courses?   ✛

Industry and Careers   ✛

Recommended Course Sequence   ✛

Course Series Requirements   ▬

This is an open admissions program, which means you can enrol in these cybersecurity courses right away. No prior background is required.

Contact Us   ✛

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Drone/RPAS Ground School

Course Series

This program prepares students for Transport Canada's UAV Pilot Permit Exam, Transport Canada Compliant UAV operations, and UAV remote sensing applications.

The program focuses on drone/UAV technologies, best practices, risk and crisis management, drone equipment maintenance and repairs, flight planning, remote sensing applications, standard operation procedures, compliant operations, and post-flight image/video processing. Pilot knowledge requirements topics include air law, navigation, meteorology, aeronautics, and radiotelephony.

This comprehensive program instructs students to have a compliant drone/UAV enterprise and/or career in Canada. Students complete regulatory applications, Company Operation Manual (COM), fleet management records, operation checklists, and detailed workflows for planning, pre-flight, post flight, and flight operations management for their drone operation. During the program, Canadian UAV/drone industry leaders are invited as guest speakers to share their valuable expertise with students and provide networking opportunities.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education and also qualify for the Industry Canada Restricted Operator Certificate with Aeronautical (ROC-A).

Required Courses　—

[CKCS 175 Drone/RPAS Pilot School](#)

[CKCS 176 Drone/RPAS Operations](#)

[CKCS 177 RPAS Remote Sensing Apps](#)

What Will You Learn?　＋

Who Teaches the Courses?　＋

Industry and Careers　＋

Recommended Sequence　＋

Course Series Requirements　—

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Intensive Option　＋

Contact Us　＋

Early Childhood Mental Health and Well-Being

Course Series

This course series can be completed entirely online.

This program offers professionals in the field of early learning and care the opportunity to enhance professional practice skills related to child and family health, well-being, early intervention, and inclusive practices. Students will critically explore frameworks, theories, and practices – both current and evolving – as they relate to the children and families with whom they work.

Who Should Enrol?   ＋

Program Design   ＋

Course Series Requirements   －

- Successful completion of 1 required course
- Successful completion of 2 electives*

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Health and Well-Being: CCLD 444, CCLD 446
Professional Practice: CCLD 442, CCLD 445

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ＋

Required Course   －

CCLD 342 Assessment for Programming

Electives (select 2)   －

CCLD 442 Infant Mental Health
Next Offered: Spring/Summer 2021

CCLD 444 Therapies for Young Children

CCLD 445 Inclusion and Consultation
Next Offered: Spring/Summer 2021

CCLD 446 Children and Chronic Illness

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EarlyON Child and Family Centres

Course Series

Harness the knowledge and skills required by both professionals in early learning and family supports to fully engage families from diverse communities during this time of transition in Ontario. Explore the needs of the broader community to serve families and children through courses that address the growing demand for expanded understanding - integrating knowledge from the fields of early learning and family supports. You'll learn strategies to support families in programs and services, approaches to work effectively across diverse groups, and gain competencies in meeting the developmental needs of children from birth to 12 years of age.

This course series can be completed entirely online.

Course Series Requirements ✛

Contact Us ▬

Questions? Contact Rose Reid, Program Coordinator.

Phone: 416-979-5000, ext. 5310
Email: rosereid@ryerson.ca

Additional Details ✛

Required Courses ▬

CVFS 401 Contemporary Family Issues
Next Offered:Spring/Summer 2021

CVFS 403 Family Supports Theory and Practice

Electives (select one) ▬

CVFS 406 Guiding Children's Development

CINT 900 Program Planning and Evaluation Strategies
Next Offered:Spring/Summer 2021

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Entrepreneurship and Small Business

Course Series

The three courses required for this course series will provide an essential body of knowledge needed to start and/or grow a business venture within a multicultural context.

Course Series Requirements   ➕

Related Certificate   ➖

The courses in this program may be applied to the [Entrepreneurship and Small Business certificate](#).

Contact Us   ➕

Required Courses   ➖

You may only select one of CENT 526 or CENT 601.

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

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Family Supports and Community Engagement

Course Series

This course series addresses the growing demand for skills that expand and integrate knowledge for practitioners in the fields of early learning, family support, community engagement, and health-related sectors. It will also support learners working in diverse community-based programs.

Students will gain knowledge and competencies to address challenges experienced by contemporary families while promoting healthy child development. This course series also focuses on specific strategies to engage families in effective planning, problem-solving, and decision-making processes that will improve conditions of family and community well-being.

Course Series Requirements   —

- Successful completion of 2 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses   —

CSWP 936 Community Engagement Practices
Next Offered:Spring/Summer 2021

CVFS 403 Family Supports Theory and Practice

Electives (select 1)   —

CINT 905 Conflict Resolution in Community Services
Next Offered:Spring/Summer 2021

CSWP 935 Engaging Diverse Communities
Next Offered:Spring/Summer 2021

CVFS 401 Contemporary Family Issues
Next Offered:Spring/Summer 2021

CVFS 406 Guiding Children's Development

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Film Production Techniques Using Mobile Devices

Course Series

The current trends in mobile devices have provided consumers and media professionals alike with the tools to capture imagery and audio in ways that have never existed before with such immediacy. Instruction will include topics such as visual story telling, techniques for fiction and documentary filmmaking, video production techniques for social and informal media, editing and advanced postproduction techniques, and video publishing techniques for distribution to various media.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Earn a Professional Development Award on successful completion of all courses**
- **Exhibit your creative work through special events**
- **Apply for merit-based awards**

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.**

Want to find out more about the **Course Series in Film Production Techniques Using Mobile Devices?** Express interest to connect with this program and receive updates.

Express interest ⧉

Required Courses (select 4) ━

CDMP 350 Visual Story Telling

CDMP 351 Filmmaking Techniques

CDMP 352 Video Productions Techniques

CDMP 353 Film Editing Techniques

CDMP 354 Advanced Post-Production

CDMP 355 Video Publishing Techniques

Course Series Requirements ━

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Peter Gerretsen Film Awards ✚

Contact Us ✚

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Financial Predictive Data Analytics

Course Series

Learn to analyze financial data and statistics, forecast financial predictions, and execute real-world, predictive financial analysis projects (including querying financial data using R and Python) to provide evidence-based financial decision-making.

No previous background is required.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this 3 course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?   +

Who Should Enrol?   +

Who Teaches the Courses?   +

Industry and Careers   +

Recommended Course Sequence   +

Course Series Requirements   −

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Required Course   −

[CMTH 501 Numerical Analysis I](#)
Next Offered:Spring/Summer 2021

Electives (select 2)   −

[CIND 123 Data Analytics: Basic Methods](#)
Next Offered:Spring/Summer 2021

[CMTH 304 Probability and Statistics I](#)

[CMTH 380 Probability and Statistics I](#)
Next Offered:Spring/Summer 2021

[CMTH 404 Probability and Statistics II](#)

[CMTH 480 Probability and Statistics II](#)
Next Offered:Spring/Summer 2021

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Fine Art Practice

Course Series

This program is an opportunity to develop practical fine art skills and gain knowledge of art history. The studio courses cover drawing, graphic design, animation, and drafting for set design. The art history courses cover prehistoric to modern art.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use applicable courses towards the [Certificate in Design for Arts and Entertainment](#), the [Certificate in Digital Art Production](#), the [Certificate in Film Studies](#), the [Certificate in Image Arts](#), or the [Certificate in Fashion Coordination and Styling](#)**
- **Apply for merit-based awards**

Want to find out more about the **Course Series in Fine Art Practice?** Express interest to connect with this program and receive updates.

Express interest 🔗

Required Courses (select 3) ▬

[CDFA 104 Fashion Drawing I](#)

[CDID 170 Drafting for Entertainment](#)

[CFPN 534 Graphic Design](#)

[CFPN 541 Digital Animation Concepts](#)

[CMPC 101 Visual Studies I](#)
Next Offered:Spring/Summer 2021

[CMPC 103 Art and the Classical Tradition](#)
Next Offered:Spring/Summer 2021

[CMPC 203 Art in the Modern World](#)
Next Offered:Spring/Summer 2021

Course Series Requirements ▬

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) 🔗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us ➕

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Gender and Sexuality

Course Series

Explore critical and theoretical perspectives on gender and sexuality through this course series. Choose from a variety of courses that will deepen your understanding of the important interrelationships of gender, sexuality, and society.

What Will You Learn?   +

Who Should Take This Course Series?   +

Course Series Requirements   −

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🗗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Required Course   −

CSOC 633 Sex, Gender Identities, and Sexualities
Next Offered:Spring/Summer 2021

Electives (select 2)   −

CCRM 515 Gendering Justice

CENG 602 Women's Writing
Next Offered:Spring/Summer 2021

CFNF 400 The Social Context of Human Sexuality
Next Offered:Spring/Summer 2021

CFNY 409 Gender and Food Security

CHST 658 Sex in the City
Next Offered:Spring/Summer 2021

CINT 906 Sexuality: Power and Pleasure
Next Offered:Spring/Summer 2021

CPHL 606 Philosophy of Love and Sex
Next Offered:Spring/Summer 2021

CPOL 501 Women, Power and Politics
Next Offered:Spring/Summer 2021

CPOL 510 The Politics of Sexual Diversity

CSOC 885 Women and Islam
Next Offered:Spring/Summer 2021

Hadoop, Python, and Tableau Big Data Tools

Course Series

Acquire hands-on technical programming skills for Hadoop, Python, and Tableau Big Data Tools Administration.

Learn how to perform big data analytics queries on unstructured data, visual data, and social media data using Hortonworks, SQL, Hadoop, R, Python, Excel and Tableau.

You will learn up-to-date techniques in prediction and analyses of large and complex data, These technical skill sets are sought after in most fields across private, public, and non-profit sectors.

This is an **Open Admissions** program to help you advance or change your career. Classes take place in a computer lab on-campus at Ryerson University. You are not required to bring your own laptop to class.

No previous background is required.

What Will You Learn?   ＋

Who Should Enrol?   ＋

Industry and Careers   ＋

Fast Track Option   ＋

Technical Requirements   ＋

Course Series Requirements   ▬

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🔗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ＋

Required Courses (select 2)   ▬

CKCS 103 Intro to Full Stack Web Developer

CKCS 107 Data Analytics Through Excel

CKCS 113 Intro to Machine Learning

CKCS 115 Big Data Location Analyst

CKCS 116 Crowd-Sourcing Big Data

CKCS 117 Sharing Economy Big Data

CKCS 118 Big Data and Virtual Reality

CKCS 150 Introduction to Programming in Python

CKCS 155 Intro to Hadoop and Tableau

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Health Ethics

Course Series

Students will be provided with opportunities for exploring and examining ethical considerations in health and healthcare systems.

Course Series Requirements   ＋

Related Certificate   －

The courses in this program may be applied to the Health Studies certificate or to an applicable health-related certificate.

Contact Us   ＋

Required Courses   ▬

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

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

Health Informatics

Course Series

Students will be introduced to the basic concepts of health informatics from both the information technology and health systems perspectives.

Course Series Requirements   ╋

Related Certificate   ━

The courses in this program may be applied to the Certificate in Health Informatics, Certificate in Health Studies or to another applicable health-related certificate.

Contact Us   ╋

Required Courses (select 3)   ━

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

CLAW 402 Health Information Access and Privacy

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Health Services Management

Course Series

Students will be introduced to the basic principles of health services management.

This course series can be completed entirely online.

Course Series Requirements ➕

Related Certificate ➖

The courses in this program may be applied to the Certificate in Health Studies, Certificate in Health Informatics or to another applicable health-related certificate.

Contact Us ➕

Required Courses ➖

CHSM 305 The Management Cycle

CHSM 306 Management Leadership and Decision-Making

CHSM 437 Human Resources Management in Healthcare

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Immigration and Settlement Studies

Course Series

This course series provides students with the knowledge and skills needed to serve immigrants and their families directly, create policy related to that service, or create a supportive workplace environment for diverse populations.

Course Series Requirements —

- Successful completion of 3 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

Required Courses —

CINT 913 Issues of Migration
Next Offered:Spring/Summer 2021

CINT 914 Settlement Experiences
Next Offered:Spring/Summer 2021

CINT 915 Responses to Migration

Electives (select 1) —

CECN 640 Economics of Immigration

CGEO 691 Canadian Immigration: Patterns and Place

CINT 905 Conflict Resolution in Community Services
Next Offered:Spring/Summer 2021

CMHR 600 Diversity and Inclusion in the Workplace
Next Offered:Spring/Summer 2021

CMHR 700 Cross-Cultural Dimensions of Organizational Behaviour
Next Offered:Spring/Summer 2021

CPSY 620 Psychology of Immigration

CPSY 941 Cross Cultural Psychology

CSOC 474 Immigration, Borders and Belonging

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Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video

Course Series

The Chang School's Course Series in Inclusive Media

▶

Required Courses (select 4)   —

CDIM 100 Inclusive Media and Regulations
Next Offered:Spring/Summer 2021

CDIM 101 Closed Captioning
Next Offered:Spring/Summer 2021

CDIM 102 Audio Description

CDIM 103 Closed Captioning Advanced
Next Offered:Spring/Summer 2021

CDIM 104 Audio Description Advanced

Learn how to use the latest live closed captioning (CC) and audio description/described video (AD/DV) techniques and technologies to create inclusive and accessible broadcast content for a variety of audiences. Through hands-on training and theoretical learning, explore CC and AD/DV software tools, script writing and re-speaking techniques, and relevant industry regulations and legislation. Industry experts will help you develop both fundamental and advanced skills for this growing field.

Want to find out more about the **Course Series in Inclusive Media: Real-time Closed Captioning and Audio Description/Described Video?** Express interest to connect with this program and receive updates.

Express interest ⧉

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Earn a Professional Development Award on successful completion of all required courses**
- **Apply for merit-based awards**

What Makes Our Program Unique?   +

Who Teaches the Courses?   +

Advisory Committee Members   +

Course Series Requirements   —

- Successful completion of 4 required courses

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Frequently Asked Questions   +

Intensive Option   +

Inclusive Media in the Media   +

Presentations   +

Contact Us   +

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Intercultural Communication in the Canadian Workplace (ICCW)

Course Series

The Intercultural Communication in the Canadian Workplace (ICCW) course series is offered by the Workplace Communication in Canada (WCC) Program.

The WCC Program offers on- and off-campus courses designed to help internationally and Canadian-trained individuals develop the intercultural communication and soft skills necessary for meaningful employment and career mobility in the Canadian labour market.

Course Series Requirements   —

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the Workplace Communication in Canada (WCC) program at wcc@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Supplementary Course   +

Contact Us   +

Required Courses   —

CDCE 305 Intro to Intercultural Communication

CDCE 306 Managing Workplace Relationships

CDCE 307 Wking with Culturally Diverse Clients

CDCE 308 Cross Cultural Teamwork

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Interdisciplinary Conflict Resolution and Team Building

Course Series

This course series provides health and community services professionals and students with the knowledge and skills to work in interdisciplinary teams with a specific focus on understanding the nature of conflict and its root causes as well as team building. Students will explore a range of conflict resolution methods, approaches, and strategies. The relationship between conflict, conflict resolution, and issues of diversity will be addressed. The interpersonal skills and personal and professional values that impact on working in teams and the dynamics of an effective team will also be considered.

Course Series Requirements   —

- Successful completion of 2 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Required Courses   —

CINT 905 Conflict Resolution in Community Services
Next Offered:Spring/Summer 2021

CINT 907 Team Work for Community Services
Next Offered:Spring/Summer 2021

Electives (select 1)   —

CINT 920 Community Collaborations
Next Offered:Spring/Summer 2021

CINT 921 Writing Bodies Differently

CSWP 935 Engaging Diverse Communities
Next Offered:Spring/Summer 2021

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Interdisciplinary Studies: Community Partnerships

Course Series

View the recording of the Interdisciplinary Studies webinar. ⬈

Interdisciplinary Studies Webinar

▶
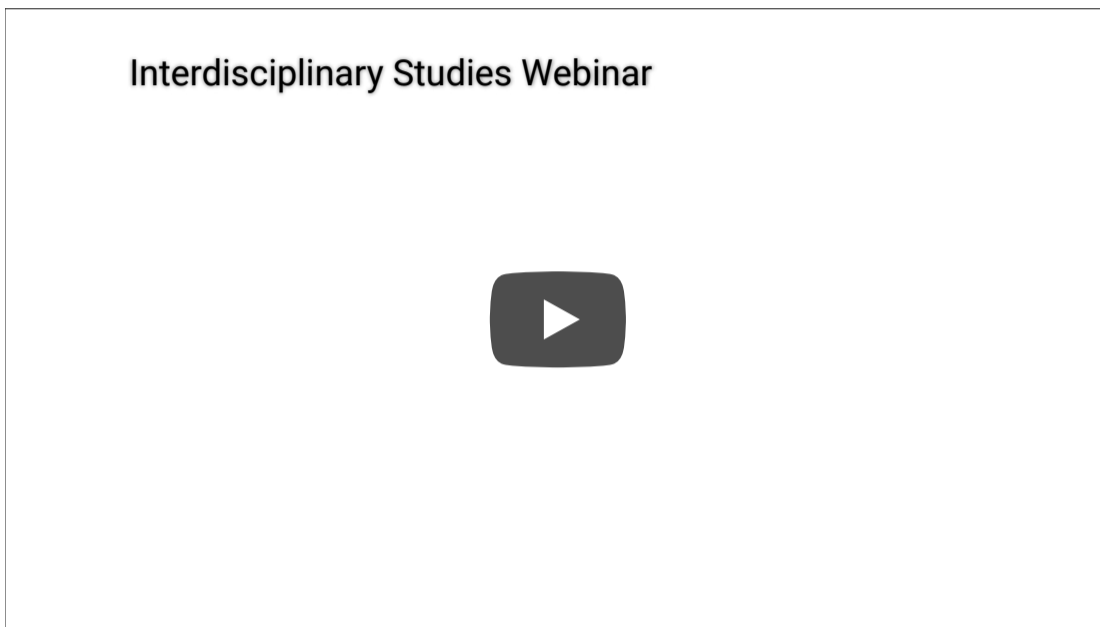
Required Courses ━

CINT 917 Interprof. Ed. for Community Development
Next Offered:Spring/Summer 2021

CINT 920 Community Collaborations
Next Offered:Spring/Summer 2021

This program provides health and community services professionals and students with the knowledge and skills to build interdisciplinary community partnerships and to understand the challenges of developing and sustaining such partnerships. Through practical examples and case studies, students will develop community facilitation skills.

Who Should Enrol? ＋

Program Design ＋

Course Series Requirements ━
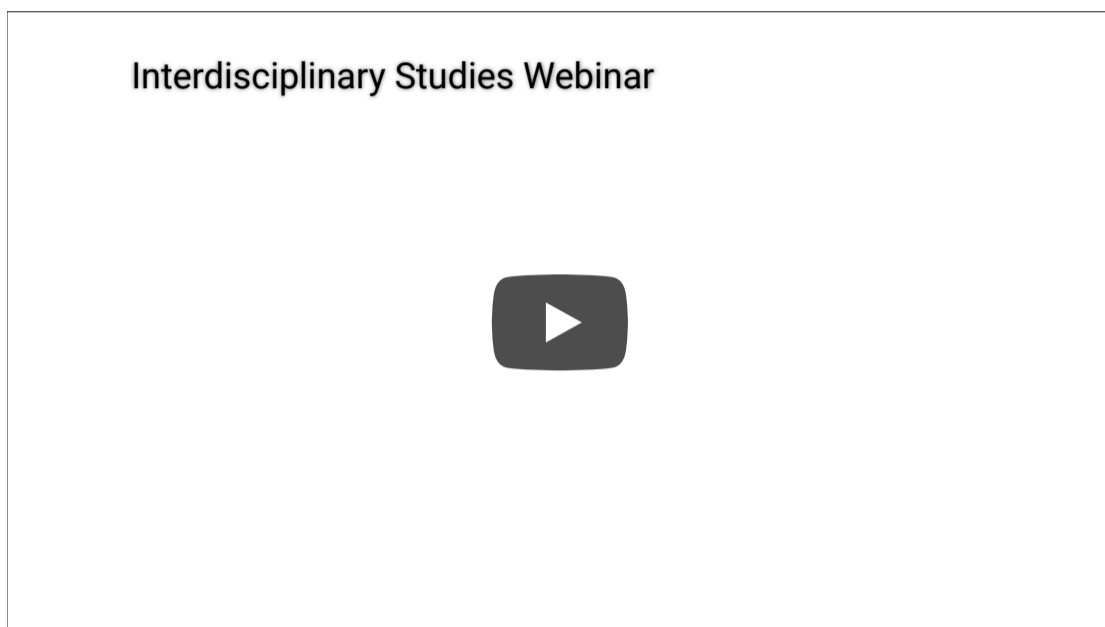
- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⬈ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us ＋

Interdisciplinary Studies: Interdisciplinary Program Management

Course Series

[View the recording of the Interdisciplinary Studies webinar.](#) ⧉

Interdisciplinary Studies Webinar

This program provides health and community services professionals and students with the knowledge and skills to plan and/or fundraise in various interdisciplinary team roles with a specific focus on health care managerial skills.

Who Should Enrol?   +

Program Design   +

Course Series Requirements   −

- Successful completion of 1 required course
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Required Course   −

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

Electives (select 1)   −

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

[CINT 916 Introduction to Fundraising](#)
Next Offered:Spring/Summer 2021

ⓘ **COVID-19 updates and resources for students, faculty and staff**

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Interdisciplinary Studies: International Field Experience

Course Series

View the recording of the Interdisciplinary Studies webinar. ↗
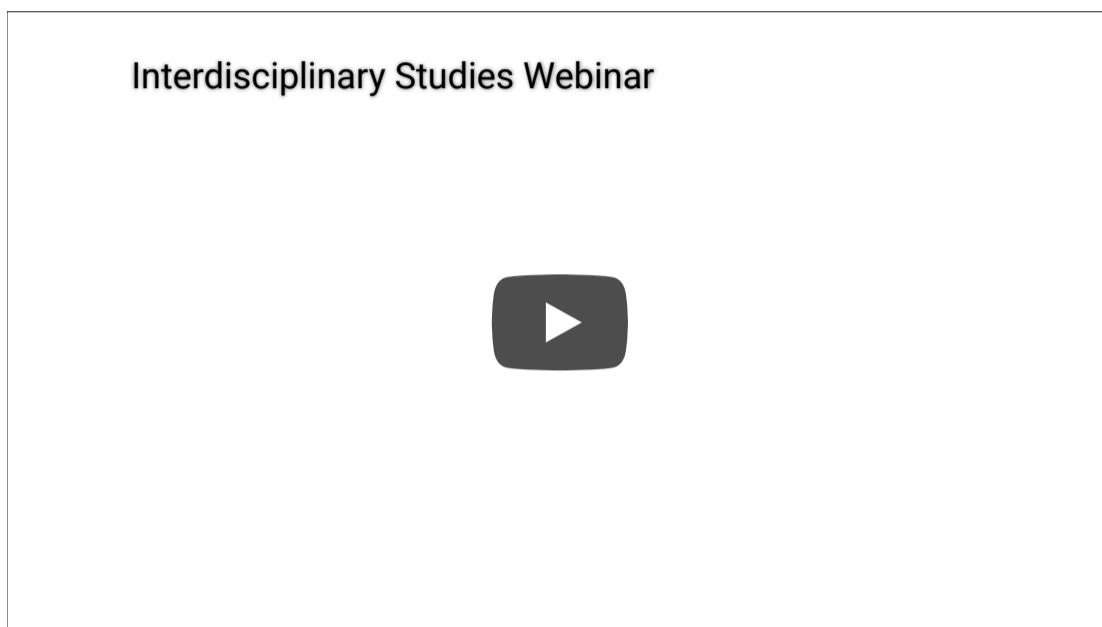
Required Courses ▬

CINT 911 International Community Development

CINT 912 Community Development: International Field Experience

This program provides health and community services professionals and students with the opportunity to explore various approaches which have been used in local, bottom-up developments as well as some tools which are now available to assist the community development facilitator. It will allow them to deepen their understanding of development issues and to experience part of their learning in an interdisciplinary, international, and intercultural setting.

Course Series Requirements ▬

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Internationally Trained Medical Doctors (ITMD) Bridging Program

Course Series

The Chang School's Internationally Trained Medical Doctors (ITM...

The goal of this unique learning opportunity is to successfully integrate highly qualified, skilled, and experienced internationally trained medical doctors (ITMDs) into non-licensed healthcare employment. The program provides additional skills needed for participants to gain employment in health research, health informatics, data analysis, and health management positions in Canada as an alternative to medical doctor licensing.

Who Teaches the Courses? +

Tuition and Financial Aid +

How to Apply +

Course Series Requirements —

- Successful completion of 5 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the ITMD Bridging Program at itmds@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

Admission Criteria —

All applicants to the Internationally Trained Medical Doctors (ITMD) Bridging Program must satisfy the following requirements:

- Be a Canadian citizen, permanent resident of Ontario, or have refugee status at the time of application

Required Courses —

CKHS 100 Health Research Methodology

CKHS 110 Health Informatics and Data Management

CKHS 120 Fund of PM for Health Professionals

CKHS 140 Health Pro Comm and Ldshp Skills

CKHS 150 Multidsc Hlth Rsrch/Mgnt Seminar

Supplementary Course —

The following course will give you the opportunity to further develop your learning and professional skills; however, it is not required for the Professional Development Award.

CKHS 130 Practicum Placement

- Be an internationally trained medical professional (medical doctor/dental surgeon/clinical public health specialist)
- Have a medical doctor degree equivalent to an Ontario university degree
- Have at least two years of previous work experience in public health education and research
- Demonstrate English language proficiency at the minimum required level:
  - TOEFL 92; or Academic IELTS of 6.5; or CLB 8 (all band); or equivalent English language proficiency test

Students seeking admission to this program are also required to complete an application form. Refer to How to Apply above.

After consideration of all applications and pre-screening process, selected candidates will be invited, via email, to attend an in-person interview with members of the ITMD application review committee. The interview allows the review committee to learn more about your academic and professional experience and background.

Only successful applicants will receive an offer of admission with follow-up documentation on student registration and orientation procedures.

Testimonials ╋

Frequently Asked Questions ╋

Our Support Partners ╋

Roadmap for ITMDs: Evidence-based Study ╋

Bridge Newsletter ╋

Contact Us ╋

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Introduction to Health Data Analytics

Course Series

This program is designed for students who want to fill gaps in their professional health background to achieve greater professional development and/or transition careers into the health field. The demand for healthcare professionals with data analytical skills is growing in both health-specific and health-related fields, especially with the increase in accountability policies and the requirement of many health graduate programs that students have courses in this area to be admitted.

Course Series Requirements ➖

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate ➕

Contact Us ➕

Required Courses ➖

CHIM 301 Healthcare Information Analysis

CHIM 408 Statistics for Health Services Managers
Next Offered:Spring/Summer 2021

CHSM 301 The Healthcare Systems
Next Offered:Spring/Summer 2021

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Introduction to Privacy, Access, and Information Management

Course Series

In our current data-driven economy, the rapid proliferation of emerging technologies poses significant implications with the regard to the protection of personal data and access to information. This program equips learners from all sectors with the foundational knowledge and skills needed to navigate the complex and often unpredictable world of privacy and access.

Course Series Requirements   ＋

Related Certificate   －

The courses in this program may be applied to the Privacy, Access, and Information Management certificate.

Contact Us   ＋

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

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Introductory Accounting

Course Series

This course series provides students interested in developing accounting skills with essential introductory accounting knowledge.

Course Series Requirements ✛

Related Certificate ▬

The courses in Option 1 of this program may be applied to the Accounting – Finance certificate.

Contact Us ✛

Required Courses (Option 1) ▬

The professional development award may be achieved by completing all courses in either this Option or Option 2.

CACC 110 Financial Accounting

Next Offered:Spring/Summer 2021

CACC 410 Management Accounting

Next Offered:Spring/Summer 2021

Required Courses (Option 2) ▬

The professional development award may be achieved by completing all courses in either this Option or Option 1.

CACC 100 Introductory Financial Accounting

Next Offered:Spring/Summer 2021

CACC 333 Core Concepts of Accounting

Next Offered:Spring/Summer 2021

CACC 406 Introductory Management Accounting

Next Offered:Spring/Summer 2021

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iPhone and Android Applications Developer

Course Series

As part of this course series, you will develop apps for Android and iPhone, the two most popular and prominent mobile development platforms. You will have the opportunity to learn Javascript programming for Android and Object Oriented programming for iPhone. You will also have the option to learn C# and Python.

No previous background is required and this course series is applicable to all industries.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this two-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses ─

CKCS 185 Intro to Android Apps Development

CKCS 186 Intro to iPhone Apps Development

What Will You Learn? +

Who Teaches the Courses? +

Who Should Enrol? +

Recommended Sequence +

Course Series Requirements ─

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us +

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Leadership in Accessibility and Inclusion

Course Series

Increase inclusion and optimize accessibility in your workplace and community. This course series provides a foundation of knowledge on accessibility and inclusion and builds on this through courses on legislation, digital accessibility, employment, and public space design.

An experiential learning capstone course -- a project-based opportunity in the community provides the opportunity to apply the concepts and knowledge gained through your studies. Expand on your first hand experience with policy and organizational changes and build marketable hands-on experience as you build your personal network in the community.

This course series can be completed entirely online.

Learning Outcomes ➕

Who Should Enrol? ➕

About the Academic Coordinator: Darren Cooper ➕

Testimonial ➕

Course Series Requirements ➕

Contact Us ➖

Questions? Contact Darren Cooper, Academic Coordinator.

Email: d5cooper@ryerson.ca

Additional Details ➕

Required Courses ➖

CVAS 100 Accessibility and Compliance Awareness
Next Offered:Spring/Summer 2021

CVAS 110 Accessibility Standards

CVAS 500 Field Experience: Capstone
Next Offered:Spring/Summer 2021

Electives (select one) ➖

CVAS 200 Introducing Digital Accessibility
Next Offered:Spring/Summer 2021

CVAS 210 Recruitment, Training, and Employment

CVAS 230 Public Spaces
Next Offered:Spring/Summer 2021

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Leading and Planning for Patient Experience

Course Series

This program is designed for healthcare practitioners who are committed to advancing patient experience in their organizational setting, while at the same time, optimizing their leadership and planning capacities. Participants will also practice and acquire a range of skills related to the healthcare system, patient experience, project management, and conflict resolution.

Course Series Requirements   ➖

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⬈ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ➕

Required Course   ➖

CVIN 150 Advancing the Patient Experience

Electives (select 2)   ➖

CHSM 301 The Healthcare Systems
Next Offered:Spring/Summer 2021

CINT 905 Conflict Resolution in Community Services
Next Offered:Spring/Summer 2021

CTEC 210 Fundamentals of Project Management
Next Offered:Spring/Summer 2021

CVNU 360 Advanced Leadership and Management

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Lean Six Sigma and Sustainable Industry Enterprise

Course Series

Learn to promote sustainability by prioritizing, deploying, and implementing best practices with proven techniques, including Lean Six Sigma, to execute vital strategic plans in private and public enterprise. You will come away with the ability to generate organizational transformation, resulting in eco-efficiency, innovative products and services, and engaged communities, all while gaining competitive advantage globally. You will also enhance systems-thinking, decision-making, and consensus-building abilities to maximize their organizations' impacts.

No previous background required and this course series can be completed entirely online.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

Required Courses (select 3) ➖

CKSS 100 Fundamentals in Sustainability I
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

What Will You Learn? ➕

Who Should Enrol? ➕

Who Teaches the Courses? ➕

Industry and Careers ➕

Recommended Sequence ➕

Course Series Requirements ➖

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate ➕

Contact Us ➕

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Marketing Innovation

Course Series

Canada's competitiveness in the world depends on the ability to innovate. Having a good idea is not enough to be successful and there are specialized skills required to bring a new product or service to market. This program is for students interested in the development and marketing of new products and services.

Course Series Requirements ➕

Related Certificate ➖

The courses in this program may be applied to the Strategic Marketing certificate.

Contact Us ➕

Required Courses ➖

CMKT 300 Marketing Metrics and Analysis
Next Offered:Spring/Summer 2021

CMKT 400 Understanding Consumers and the New Media
Next Offered:Spring/Summer 2021

CMKT 730 Assessing/Managing Market Opportunities

Electives (select 1) ➖

CMKT 500 Marketing Research
Next Offered:Spring/Summer 2021

CMKT 510 Innovations in Marketing
Next Offered:Spring/Summer 2021

CMKT 535 Integrated Marketing Communications

CMKT 723 Services Marketing
Next Offered:Spring/Summer 2021

CMKT 731 Competitive Intelligence

Marketing Research

Course Series

This program provides various techniques to measure marketing performance in organizations; it introduces the use of theories of social sciences and metrics to allow marketers to understand, analyze, and respond to consumer needs in the digital age. Students will learn how to effectively prepare, analyze, and interpret large databases and use both qualitative and quantitative tools to make strategic and sound marketing decisions.

Course Series Requirements   —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🗗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate   ＋

Contact Us   ＋

Required Courses   —

You may only select one of CMKT 400 or CMKT 700.

CMKT 300 Marketing Metrics and Analysis
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 700 Business Intelligence/Decision Modeling
Next Offered:Spring/Summer 2021

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Paediatric Health Assessment

Course Series

These courses will build on nurses' existing health assessment expertise by providing advanced knowledge and specific skills for the assessment of infants, children, and adolescents. Nurses will have the opportunity to broaden their expertise with system-specific assessment approaches across all paediatric developmental stages and diverse healthcare needs. This course series includes a course held at the state-of-the-art SickKids Simulation Lab.

Who Should Enrol   ➕

Learning Outcomes   ➕

Course Delivery   ➕

About Our Course Development Team   ➕

Course Series Requirements   ➖

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🗗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   ➕

Required Courses   ➖

CVNU 113 Paediatric Health Assessment
Next Offered:Spring/Summer 2021

CVNU 114 Paediatric Health Assessment Workshop

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Patient Safety and Nursing Informatics

Course Series

This program blends the concepts of nursing informatics as a specialty nursing practice and its impact on promoting safe patient care within the context of clinical information and technology. The program will be of interest to nurses who are seeking to broaden their frontline and leadership experience and expertise in nursing informatics.

Course Series Requirements ▬

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses ▬

CHSM 301 The Healthcare Systems
Next Offered:Spring/Summer 2021

CVNU 322 Computer and Information Management in Nursing
Next Offered:Spring/Summer 2021

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Professional Healthcare Careers Foundations

Course Series

Meet your academic university undergraduate degree course requirements to apply for entrance to healthcare career professional schools, namely: medical school, veterinary school, dentistry school, pharmacy school, midwifery school, physical therapy school, optometry school, osteopathy school, podiatry school, speech pathology, and graduate programs including environmental biology and biomedical sciences/engineering.

No previous background required. This course series is completed in class.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

What Will You Learn?   +

Who Should Enrol?   +

Who Teaches the Courses?   +

Industry and Careers   +

Recommended Sequence   +

Course Series Requirements   —

- Successful completion of 3 required courses

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Biology: CBLG 10A and CBLG 10B, CBLG 143, CBLG 144, CBLG 151, CBLG 311
Chemistry: CCHY 103, CCHY 242, CCHY 381, CKCH 107, CKCH 113, CKCH 142, CKCH 143, CKCH 225, CKCH 227

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Contact Us   +

Required Courses (select 3)   —

CBLG 10A is a multi-term course. If you enrol in CBLG 10A for the selected term, you will automatically be enrolled in CBLG 10B for the subsequent term. The automatic enrolment usually occurs near the completion of "A" term, and therefore the "B" term will not appear on your schedule of classes until that time.
If you wish to pursue CKCH 113, you must also select CKCH 107 as together these courses are equivalent to CHY 113.
If you wish to pursue CKCH 142, you must also select CKCH 143 as together these courses are equivalent to CHY 142.
If you wish to pursue CKCH 225, you must also select CKCH 227 as together these courses are equivalent to BCH 261.

CBLG 143 Biology I
Next Offered:Spring/Summer 2021

CBLG 144 Biology II

CBLG 151 Microbiology I

CBLG 311 Cell Biology

CCHY 103 General Chemistry I
Next Offered:Spring/Summer 2021

CCHY 242 Organic Chemistry II
Next Offered:Spring/Summer 2021

CCHY 381 Physical Chemistry I

CKCH 107 General Chemistry Laboratory
Next Offered:Spring/Summer 2021

CKCH 113 General Chemistry II
Next Offered:Spring/Summer 2021

CKCH 142 Organic Chemistry I
Next Offered:Spring/Summer 2021

CKCH 143 Organic Chemistry Laboratory
Next Offered:Spring/Summer 2021

CKCH 225 Biochemistry I

CKCH 227 Biochemistry Laboratory I

CMTH 125 Mathematics for Professional Programs
Next Offered:Spring/Summer 2021

CMTH 131 Modern Mathematics I
Next Offered:Spring/Summer 2021

CMTH 207 Calculus and Computational Methods I
Next Offered:Spring/Summer 2021

CMTH 231 Modern Mathematics II
Next Offered:Spring/Summer 2021

CMTH 304 Probability and Statistics I

CMTH 310 Calculus and Computational Methods II
Next Offered:Spring/Summer 2021

CMTH 404 Probability and Statistics II

CPCS 110 Physics

CPCS 120 Physics I

CPCS 130 Physics II

Project Management

Course Series

Learn the skills necessary to become a project management professional. If you are already working as a project manager, upskill and earn professional development units (PDUs) to maintain your professional credentials.

No previous background is required and this course series can be completed entirely online.

This is an **Open Admissions** program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

Who Should Enrol?	+

Who Teaches the Courses?	+

Industry and Careers	+

Recommended Course Sequence	+

Course Series Requirements	—

- Successful completion of 3 required courses*

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Project Management Foundation: These courses cover the fundamentals of project management, planning and scheduling, and project management systems (Microsoft Project).
CKPM 203, CKPM 217, CTEC 210

Project Management Practitioner: These courses focus on managing risk and quality, as well as leading teams.
CKPM 209, CKPM 211, CTEC 210

Agile Project Management: To cater to entrepreneurial and digital environments, these courses present agile and emerging trends in project management.
CKPM 217, CKPM 219, CTEC 210

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ↗ with your name, student

📅 **Project Management Online Information Session**

Monday, December 7, 2020, 12:00 p.m.–1:00 p.m. EST

RSVP ↗

Required Courses (select 3) —

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 217 Agile Project Management
Next Offered: Spring/Summer 2021

CKPM 219 Mobile Project Management
Next Offered: Spring/Summer 2021

CTEC 210 Fundamentals of Project Management
Next Offered: Spring/Summer 2021

number, and the course series you have completed. Upon verification, you will
receive your professional development award within 4 to 6 weeks.

Related Certificate   ✛

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Project and Workplace Budgets Coordination

Course Series

This program is designed for individuals who wish to acquire the hardcore skill sets to carry out budgeting and coordination of a variety of projects in the workplace. It provides training in high demand skills such as budget creation, cost control, workplace budget management, mobile project management, and project oversight and execution.

Note: Advanced Excell skills will be taught in this program.

Course Series Requirements   ➖

- Successful completion of 1 required course
- Successful completion of 2 electives

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Course (select 1)   ➖

CKPM 217 Agile Project Management
Next Offered:Spring/Summer 2021

CTEC 210 Fundamentals of Project Management
Next Offered:Spring/Summer 2021

Electives (select 2)   ➖

CKCS 107 Data Analytics Through Excel

CKPM 212 Project Cost and Procurement Management
Next Offered:Spring/Summer 2021

CKPM 219 Mobile Project Management

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Research Methodologies and Program Evaluation

Course Series

[View the recording of the Research Methodologies webinar.](#) ⧉

Course Series in Research Methodologies and Program Ev...

Required Courses ➖

[CSWP 538 Social Work Research: Part I](#)

[CSWP 638 Social Work Research: Part II](#)

[CSWP 932 Evaluating Social Work Practices](#)

Next Offered: Spring/Summer 2021

This program offers an introduction to quantitative and qualitative research methodologies from anti-oppression, anti-colonial, and anti-racism perspectives to social work students and community practitioners. Using these perspectives, participants will also acquire the skills necessary to design and evaluate social programs and their own practice.

Who Should Enrol? ➕

Program Design ➕

Course Series Requirements ➖

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Retail Buying

Course Series

Students will examine the role of the buyer, the procurement process, and merchandise management. An exploration of in-store design, layout, and display options using space planning software will also be covered.

Course Series Requirements   —

- Successful completion of 2 required courses
- Successful completion of 1 elective

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses   —

CRMG 400 Merchandise Buying and Planning I

CRMG 452 Visual Merchandising and Space Planning

Electives (select 1)   —

You may only select one of CRMG 806 or CRMG 909. If you intend to write the Category Management Certification Exam, you should take CRMG 806.

CRMG 806 Retailer Perspectives on Category Management
Next Offered:Spring/Summer 2021

CRMG 909 Merchandise Buying and Planning II
Next Offered:Spring/Summer 2021

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Retail Operations and Sales Management

Course Series

Students will examine a variety of systems relevant to the retail environment through case studies and online discussions. Other topics will include teamwork, employee motivation, retail metrics, and meeting consumers' needs.

Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⤢ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses ▬

CRMG 301 Retail Operations Management

CRMG 303 Managing the Retail Workplace
Next Offered:Spring/Summer 2021

CRMG 911 Retail Sales Management

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Science, Technology, Engineering, and Mathematics (STEM)

Course Series

Gain the knowledge to become a professional in science, technology, engineering, and math (STEM) in the private and public sectors. This could include professions in Information Technology (IT), research positions, entrepreneurship, and more.

If you are already in STEM, this is a chance to upskill your soft transferable skills while gaining in-demand professional skill sets such as: entrepreneurship, innovative venture start-ups management, critical thinking, problem-solving, solution-building and execution, and interpersonal workplace relationship-building skills.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. No previous background is required and this course series can be completed entirely online, depending on your course selection.

This short course series is an excellent complement to the skills you may already possess as a professional.

📅 Not ready to enrol but want to learn more?

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

Express interest 🗗

Who Should Enrol?	➕

Who Teaches the Courses?	➕

Industry and Careers	➕

Recommended Sequence	➕

Course Series Requirements	➖

- Successful completion of 1 required course
- Successful completion of 2 electives*

*You may choose to focus on a specific area to achieve your individual goals. The electives may be grouped as follows:

Emergency Management: [CSCI 232](#), [CSCI 241](#)

Environmental Science Management and Science: [CKES 120](#), [CKES 170](#), [CKES 180](#), [CKES 210](#), [CKES 220](#)

Information Technology: [CCPS 109](#), [CCPS 305](#), [CCPS 311](#), [CCPS 393](#), [CKCS 160](#), [CKCS 230](#), [CKCS 231](#), [CKCS 232](#), [CKCS 234](#), [CDKF 110](#), [CDKF 120](#), [CDKF 130](#), [CDKF 140](#), [CDKF 145](#), [CKRE 110](#), [CKRE 120](#), [CKRE 130](#), [CMTH 304](#), [CMTH 404](#), CMTH 642, CSCI 130, CSCI 243, CZLW 120

Required Course ➖

[CDCE 305 Intro to Intercultural Communication](#)

[CDCE 306 Managing Workplace Relationships](#)

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

[CDCE 308 Cross Cultural Teamwork](#)

[CENT 500 New Venture Startup](#)
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) ➖

[CBLG 143 Biology I](#)
Next Offered: Spring/Summer 2021

[CBLG 144 Biology II](#)

[CBLG 151 Microbiology I](#)

[CBLG 699 Social Factors in Drug Development](#)
Next Offered: Spring/Summer 2021

[CCHY 103 General Chemistry I](#)
Next Offered: Spring/Summer 2021

[CCHY 183 Introduction to Forensic Sciences](#)
Next Offered: Spring/Summer 2021

[CCHY 242 Organic Chemistry II](#)
Next Offered: Spring/Summer 2021

[CCHY 381 Physical Chemistry I](#)

[CCHY 583 Alternative Energies](#)
Next Offered: Spring/Summer 2021

[CCPS 109 Computer Science I](#)
Next Offered: Spring/Summer 2021

[CCPS 305 Data Structures](#)
Next Offered: Spring/Summer 2021

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

Lean Six Sigma Enterprise Continuity and Excellence and Sustainability: CKSS 100, CKSS 101, CKSS 210, CKSS 211, CKSS 212

Mathematics: CMTH 500, CMTH 501, CMTH 600, CMTH 700, CMTH 800

Organization Operations: CKMT 104, CSCI 232

Science: CBLG 143, CBLG 144, CBLG 151, CBLG 699, CCHY 103, CCHY 183, CCHY 242, CCHY 381, CCHY 583, CKCH 107, CKCH 113, CKCH 142, CKCH 143, CKCH 216, CKCH 217, CKCH 223, CKCH 224, CKCH 227, CKES 190, CPCS 111, CPCS 120, CPCS 130, CPCS 181, CPCS 182, CPCS 581

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⬈ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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CCPS 393 Introduction to UNIX, C and C++

Next Offered:Spring/Summer 2021

CKCH 107 General Chemistry Laboratory

Next Offered:Spring/Summer 2021

CKCH 113 General Chemistry II

Next Offered:Spring/Summer 2021

CKCH 143 Organic Chemistry Laboratory

Next Offered:Spring/Summer 2021

CKCH 142 Organic Chemistry I

Next Offered:Spring/Summer 2021

CKCH 216 Analytical Chemistry I

CKCH 217 Analytical Chemistry Laboratory I

CKCH 223 Analytical Chemistry II

CKCH 224 Analytical Chemistry Laboratory II

CKCH 227 Biochemistry Laboratory I

CKCS 160 CEH and CCE Comp Sec Exam Prep

CKCS 230 Intro to SOLIDWORKS for 3-D Printing

CKCS 231 Product 3-D Animation/Rendering

CKCS 232 3-D Printing: Agile Prototyping

CKCS 233 Product Design for 3-D Printing

CKCS 234 Product Drawing for 3-D Printing

CKDF 110 Computer Network Security

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

CKES 120 Environmental and Atmospheric Processes

CKES 170 Water Treatment

CKES 180 Site Assessment

CKES 190 Renewable Energy and Green Technology

[CKES 210 Applied Environmental Analysis](#)

[CKES 220 Environmental Law and Practice](#)

[CKMT 104 FRM Level I Exam Prep](#)

[CKRE 110 Digital Logic and Hardware Architecture](#)
Next Offered:Spring/Summer 2021

[CKRE 120 Programming Robotics Systems](#)
Next Offered:Spring/Summer 2021

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

[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

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

[CMTH 304 Probability and Statistics I](#)

[CMTH 404 Probability and Statistics II](#)

[CMTH 500 Introduction to Stochastic Processes](#)
Next Offered:Spring/Summer 2021

[CMTH 501 Numerical Analysis I](#)
Next Offered:Spring/Summer 2021

[CMTH 600 Computational Methods In Mathematics](#)

[CMTH 642 Data Analytics: Advanced Methods](#)
Next Offered:Spring/Summer 2021

[CMTH 700 Financial Mathematics I](#)

[CMTH 800 Financial Mathematics II](#)

[CPCS 111 Physics in the News](#)

[CPCS 120 Physics I](#)

[CPCS 130 Physics II](#)

[CPCS 181 Introduction to Astronomy](#)
Next Offered:Spring/Summer 2021

[CPCS 182 Life in the Milky Way Galaxy](#)

[CPCS 581 Advanced Topics in Astronomy](#)
Next Offered:Spring/Summer 2021

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Scientific Research Policy and Ethics

Course Series

Learn to analyze and assess government science policy, drug development regulation, clinical trials practice, scientific project oversight, intellectual property, and/or the scientific and medical ethics required in order to advance to a professional leadership position.

No previous background is required.

This is an Open Admission program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

What Will You Learn?   +

Who Should Enrol?   +

Who Teaches the Courses?   +

Industry and Careers   +

Recommended Course Sequence   +

Course Series Requirements   −

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses (select 3)   −

CBLG 605 Science and Government Policy Development

CBLG 606 Intro to Clinical Research and Trials

CBLG 607 Intellectual Property in Science

CIND 123 Data Analytics: Basic Methods
Next Offered:Spring/Summer 2021

CKBG 120 Drug Development Regulations

CKBG 135 Pharma Project Best Practices

CPHL 509 Bioethics
Next Offered:Spring/Summer 2021

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Social Media Marketing

Course Series

Marketing communications is in a state of transformation. This program is for students who want to learn more about how marketers can incorporate social media into their marketing plans and measure its impact; it integrates marketing metrics, marketing communications, and consumer behaviour.

Course Series Requirements ➖

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate ➕

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Required Courses ➖

CMKT 300 Marketing Metrics and Analysis
Next Offered:Spring/Summer 2021

CMKT 400 Understanding Consumers and the New Media
Next Offered:Spring/Summer 2021

CMKT 510 Innovations in Marketing
Next Offered:Spring/Summer 2021

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Social Media Practices and Reputation Management

Course Series

Required Courses ➖

[CDPR 100 Public Relations Principles](#)
Next Offered:Spring/Summer 2021

[CDPR 108 Social Media in Public Relations](#)
Next Offered:Spring/Summer 2021

[CDPR 110 Reputation Management](#)

A social media presence enables senior management to share their perspectives with wider audiences, both external and internal, and garner reputational benefits from being online. Preparation for social media participation includes identifying the goals of social participation, selecting the right social platform, minimizing the risk of participation, and guiding the social conversation.

Want to find out more about the **Course Series in Social Media Practices and Reputation Management?** Express interest to connect with this program and receive updates.

Express interest 🔗

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Complete from wherever you are through a fully online format**
- **Take Ryerson degree-credit courses**
- **Use these courses towards the [Certificate in Public Relations](#)**
- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Course Series Requirements ➖

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) 🔗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate ➕

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Sports Marketing

Course Series

This program is for students who wish to build an understanding in the sports marketing industry. While equipping students with metrics and analytical tools to effectively analyze the sport market, the program also adopts an applied approach of marketing theories and principles in the sports industry. Topics covered will include national and/or international sports sponsorship, branding, promotional events, media distribution, and financial management.

Course Series Requirements   ─

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate   +

Contact Us   +

Required Courses   ─

You may only select one of CMKT 504 or CMKT 829.

CMKT 300 Marketing Metrics and Analysis
Next Offered:Spring/Summer 2021

CMKT 504 Effective Persuasion
Next Offered:Spring/Summer 2021

CMKT 828 Sport Marketing Concepts and Strategy

CMKT 829 International Sport Marketing

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Survival in Urban Disasters and Emergencies

Course Series

No previous background is required.

Learn what it takes to survive challenges in unforeseen situations with limited or non-existent support systems. This includes planning for urban survival, navigating by day/night, avoiding hazards and threats, implementing a psychology of survival, and engaging in recovery-on-the-ground techniques. You will learn to operationalize long-term survival strategies like finding/building expedient shelters, and ensuring access to necessities like water, fire, heat, light and food. Learn the fundamentals of safety, security and protection.

This is an Open Admissions program. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

This short course series is an excellent complement to the skills you may already possess as a professional.

What Will You Learn?   ＋

Who Should Enrol?   ＋

Who Teaches the Courses?   ＋

Industry and Careers   ＋

Recommended Course Sequence   ＋

Course Series Requirements   －

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🔗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

Related Certificate   ＋

Contact Us   ＋

Required Courses (select 3)   －

CSCI 230 Emergency Management Practice
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 243 Continuity and Risk Management
Next Offered:Spring/Summer 2021

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The Human Body

Course Series

Adults are increasingly aware of their need to learn how to transform their habits and lifestyles based on scientific evidence and to meet the health requirements of their age and health situations. This course series will provide opportunities for adults to learn about the human body and impacts to its health, including the biology- and chemistry-based science of food.

Learning about the human body requires space, time, and informed educators to provide current science and guide group discussions. Ryerson University's Biology and Chemistry faculty deliver the science content and subject matter experts provide a synthesis of the content with current scientific findings, while also ensuring a high level of engagement and participation in group discussions.

Each course in the series will explore the science of the human body and how one can use food science to make informed and healthy choices as he or she progresses through life. The courses will provide students with the knowledge and skill sets helpful in gaining or enhancing critical understanding of the human body.

Program Design +

Learning Outcomes +

Who Should Enrol? +

Admission and Registration +

Course Series Requirements −

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🔗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses −

CBLG 10A is a multi-term course. If you enrol in CBLG 10A for the selected term, you will automatically be enrolled in CBLG 10B for the subsequent term. The automatic enrolment usually occurs near the completion of "A" term, and therefore the "B" term will not appear on your schedule of classes until that time.

CKBG 100 Human Body Health Tools

CKBG 110 The Science of Food Foundations

CKBG 115 The Science of Supplements

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The Internet of Things (IoT)

Course Series

This program explores the technologies, architectures, and strategies for the streaming of IoT and how "always-on" data streams are managed, scaled, secured, and monetized around services, and solutions, and specifically on future connected cars, SMART cities, wearables, SMART home architectures and the Cloud, IoT analytics, IoT Open Source, connected virtual and augmented reality. Topics include emerging IoT technologies and monetization and value creation of IoT for economic prosperity and the social good.

No previous background is required.

In this course series you will learn how to operationalize technologies and strategies for the streaming of the Interenet of Things (IoT). You will learn about how "always-on" data streams are managed, scaled, secured, and monetized around services, and solutions. This course series has applications in future and current technology industries including driverless cars and vehicles, smart cities, wearables and home architectures.

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this three-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education

Required Courses —

CKCS 180 IoT 360 Connectivity to the World

CKCS 181 Emerging IoT Technologies

CKCS 182 IoT Monetization and Value Creation

What Will You Learn? +

Who Teaches the Courses? +

Who Should Enrol? +

Industry and Careers +

Recommended Sequence +
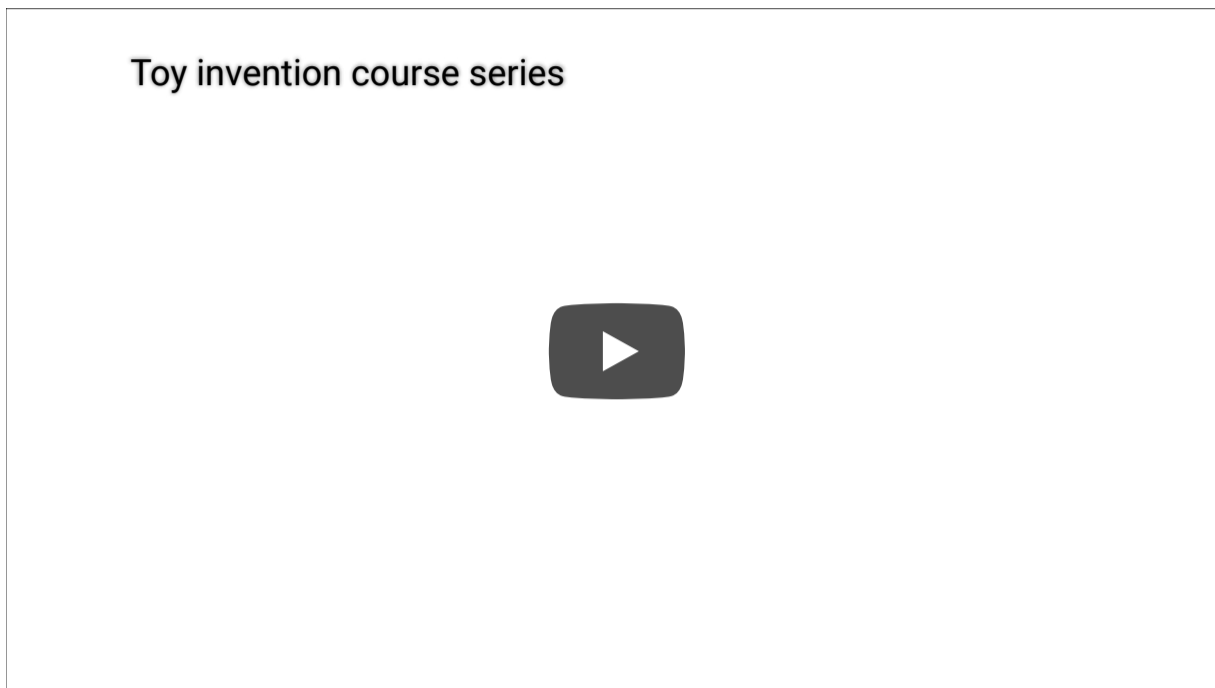
Course Series Requirements —

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form 🗗 with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Toy Invention

Course Series

> Toy invention course series
>
> ▶ (YouTube video)

Required Courses ➖

[CDTI 100 Principles of Toy Invention](#)

[CDTI 110 Toy Prototyping](#)

[CDTI 120 The Business Side of Toys - Talk Series](#)

[CDTI 130 Toy Lab](#)

Bring your imagination! We'll teach you the rest. Ryerson University's Faculty of Communication and Design (FCAD) and The Chang School have joined forces with Spin Master, Shenkar College of Engineering, Design and Art, and OCAD University to offer the Course Series in Toy Invention, the first program of its kind in Canada. This unique learning opportunity will give creative individuals with a passion for toy invention the knowledge and skills needed to enter the professional toy market.

🗓 **Want to learn more about the Course Series in Toy Invention?**
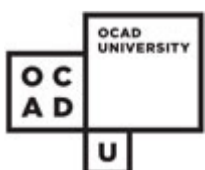
Fill out this form to receive updates.

Express Interest ⬀

This course series offers the following benefits:

- **Earn a Professional Development Award on successful completion of all courses**
- **Apply for merit-based awards**

Ready to apply? Check out the guidelines in our "How to Apply" section and find out how.

In collaboration with:

Ryerson University | The Chang School of Continuing Education | Faculty of Communication & Design

SPIN MASTER™

SHENKAR ENGINEERING. DESIGN. ART.

OCAD UNIVERSITY OCAD U

Classes for the Course Series in Toy Invention will be hosted by the [Ryerson University Library Collaboratory](#) and FCAD's Creative Technology Lab.

The Chang School's Course Series in Toy Invention: What You Need ...

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the [Request for Professional Development Award (PDA) form](#) ⬀ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

What Will You Learn?   ✛

Who Should Enrol?   ✛

Who Teaches the Courses?   ✛

Course Series Requirements   ▬

- Successful completion of 4 required courses

This course series is cohort-based; all participants will move through the completion of the four required courses as a group. You should be prepared to commit to completing the entire course series, which will take place over one academic year (Fall and Winter terms). [CDTI 100](#) and [CDTI 110](#) will take place in the Fall term, and [CDTI 120](#) and [CDTI 130](#) will take place in the Winter term.

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How To Apply   ✛

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Virtual Reality (VR) and Augmented Reality (AR) Developer for Smartphones

Course Series

Develop Augmented Reality (AR) and Virtual Reality (VR) apps and experiences for Android and iPhone, the two most popular and prominent mobile development platforms. You will have the opportunity to acquire the hands-on technical skills necessary to work in the VR and AR wearables industry – currently dominated by juggernauts like Google, Apple, Samsung, Microsoft, Facebook, HTC, and Disney. You will also have the opportunity to master 3D Unity and learn (or upskill in) C# programming for Android and iPhone AR and VR app development.

No previous background is required.

This program takes place in a computer lab and all AR and VR equipment is provided except for smartphones (bring your own).

This is an Open Admissions program to help you advance or change your career. Those who successfully complete this two-course program are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education.

🗓 Attend Our Webinar

Date: Friday, April 9, 2021

Time: 12:00 p.m.–1:00 p.m. EST

RSVP ⧉

Required Courses —

CKCS 122 VR Developer for Smartphones

CKCS 123 AR Developer for Smartphones

What Will You Learn? +

Who Teaches the Courses? +

Industry and Careers +

Recommended Sequence +

Course Series Requirements —

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Website Design

Course Series

This program provides in-depth, practical, and theoretical information needed to design websites that effectively communicate and encourage interaction.

This course series offers the following benefits:

- **Enrol right away – open admissions with no application required**
- **Take courses in any order – no prerequisites needed**
- **Take a mix of online and in-class courses**
- **Take Ryerson degree-credit courses**
- **Earn a Professional Development Award on successful completion of all courses**
- **Use applicable courses towards the Certificate in Digital Art Production**
- **Apply for merit-based awards**

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

Express interest ⧉

Required Courses ▬

CEID 100 Digital Skills: Int'l Innovation
Next Offered:Spring/Summer 2021

CFPN 534 Graphic Design

CFPN 535 User Experience Design
Next Offered:Spring/Summer 2021

CFPN 542 Design for Mobile Devices
Next Offered:Spring/Summer 2021

Course Series Requirements ▬

- Successful completion of 3 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ⧉ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.
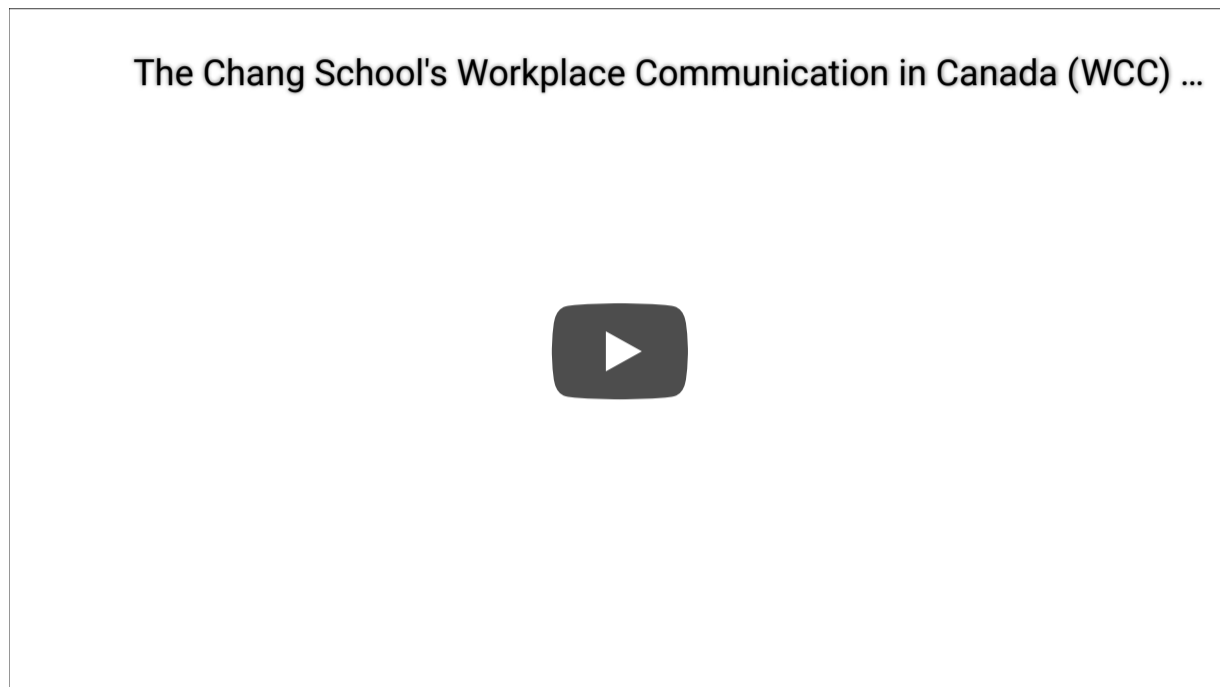
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Workplace Communication in Canada (WCC)

Course Series

The Chang School's Workplace Communication in Canada (WCC) ...

Required Courses (select 4) ▬

CDCE 700 Effective Speaking and Listening

CDCE 710 Intro to Interpersonal Communic.

CDCE 720 Client-Centred Communication

CDCE 730 Presenting with Impact

CDCE 740 Teamwork Communication

Established in 2007, the Workplace Communication in Canada (WCC) Program provides exceptional intercultural communication and soft skills training. The WCC program helps professionals in the Canadian workplace to enhance awareness and understanding of cultural differences in communication. This can result in better utilization of diverse talent and increased productivity for today's global workplace.

The program's goal is to maximize the employability and leverage preparedness for professional bridging programs of internationally educated professionals by implementing the following:

- a competency-based curriculum (using detailed performance indicators)
- a workplace-focused curriculum (materials developed in partnership with pan-professional and subject-matter experts)
- an experiential curriculum (using role plays, simulations with actors, workplace scenarios, debate clubs, and group work)

What Will You Learn?   ✛

Course Series Requirements   ▬

- Successful completion of 4 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, email the Workplace Communication in Canada (WCC) program at wcc@ryerson.ca with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award.

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Workplace Mental Health in Healthcare Settings

Course Series

This course series provides supervisors, managers, and directors the knowledge and understanding to manage the stress of frontline workers in healthcare settings. You will first explore the causes and impacts of on–the-job mental distress and post-traumatic stress disorder (PTSD), while learning about coping strategies and responsibilities of employers.

Next, leading practices to manage the spectrum of good psychological health and safety in the workplace will be exposed, using peer–to-peer learning opportunities that identify programs and services to support workers, as well as hands-on resources and learning plans.

Course Series Requirements   —

- Successful completion of 2 required courses

Those who successfully complete this course series are eligible to earn a Professional Development Award from The G. Raymond Chang School of Continuing Education. Once you have successfully completed the courses, submit the Request for Professional Development Award (PDA) form ↗ with your name, student number, and the course series you have completed. Upon verification, you will receive your professional development award within 4 to 6 weeks.

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Required Courses   —

CVOH 110 Promote Frontline Worker Mental Health

CVOH 115 Support Frontline Worker Mental Health
Next Offered:Spring/Summer 2021