ideas start here®
International leader in career preparation

Our grads are among the world’s most employable. A Waterloo degree means knowledge, experience, and the confidence to succeed.

Canada’s innovation university

Waterloo has ranked as Canada’s top innovation university for 24 years in a row. Our entrepreneurial ecosystem gives you tools you’ll need to succeed.
how to use your admissions book

DEFINE YOUR INTERESTS
If you’re not sure where to start, explore your options on pages 12 to 19.

CHOOSE YOUR PROGRAM
The detailed program descriptions on pages 20 to 27 help you compare specific programs.

RESEARCH ENTRY REQUIREMENTS
The admission requirements on pages 28 to 33 show you which high school courses and grades you’ll need.

CHOOSE HOW YOU STUDY
Consider the benefits of co-op and experiential learning on pages 4 to 5.

EXPLORE CAREER OPTIONS
See where our grads work after graduation on pages 6 to 7.

LEARN ABOUT STUDENT LIFE
Pages 8 to 11 will give you an overview of our residences, athletics, and clubs.

FINANCE YOUR EDUCATION
Answers to your tuition, scholarship, and financial aid questions are on page 34.

SUBMIT YOUR APPLICATION
Find instructions, deadlines, and tools to help you apply on page 35.

Experts in co-op
More than 6,300 employers hire our co-op students. At Waterloo, you’ll have access to 2,300 more employers than the next largest co-op program in Ontario.
welcome to your city

All the charm of a small town, with the conveniences of a big city.

The city of Waterloo is a safe and comfortable university town located only 115 kilometres from Canada’s largest metropolitan centre. Living in Waterloo puts you at the heart of an international innovation corridor. You’ll be at the forefront of new businesses and ideas, in a community made up of knowledge-based employers, global think tanks, and post-secondary institutions.

Our future-focused community ranks among the top startup hubs in the world, thanks to entrepreneurial programs like University of Waterloo’s Velocity. This program alone has helped launch more than 100 startups, including Kik, Pebble, and Thalmic Labs.

"Why does a Silicon Valley entrepreneur look to Waterloo as a source for brilliant minds and brilliant ideas? Well, it has high intellectual standards, of course, and it values entrepreneurship. But diversity is its indispensable ingredient."

– Rt. Hon. Justin Trudeau
Prime Minister of Canada

nearly

60,000 students call our region home

1,845 new tech startups formed in Waterloo over the past 5 years

1,200+ community festivals and events
You’re considering the University of Waterloo because you have high standards — for your academics and your student experience. While at Waterloo, your program, faculty, and residence community will become your “home away from home,” making sure you’ll always have a place to belong. To see more of your Waterloo campus and community, check out instagram.com/uwaterloolife and instagram.com/uofwaterloo.

getting to know your campus

Program – Your program determines many of your courses and connects you to students with similar interests. You’ll study, conduct labs, give presentations, and perhaps even travel with this group. Some programs even offer Living-Learning Communities where you can live in residence with your classmates.

Faculty – Programs that focus on similar subject areas are grouped into a larger community called a faculty. At Waterloo, your faculty will shape your overall academic and social experience.

University Colleges – Waterloo is home to 4 University Colleges: Conrad Grebel, St. Paul’s, St. Jerome’s, and Renison. They offer an intimate academic and residence community and access to all the resources offered at Waterloo. If you enroll at one, you’ll earn a Waterloo degree.
Already planned out your career? Still not sure what you want to do? Either way, Waterloo co-op gets you off to a great start.

As a co-op student, you can

» learn to answer with confidence and showcase your strengths in job interviews
» explore careers in a number of different fields to find your best fit
» diversify your job experience by applying to international co-op employers
» earn money to help pay for tuition and residence
» bolster your résumé with up to 2 years of relevant work experience
» graduate with a supportive network of professional mentors and references

Alternate between 4-month study and paid work terms

Your co-op schedule depends on your program. Check out the 4 most common study/work sequences in the chart below.

<table>
<thead>
<tr>
<th>YEAR 1</th>
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<th>YEAR 4</th>
<th>YEAR 5</th>
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<td>EXAMPLE 1</td>
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<td>EXAMPLE 2</td>
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<td>EXAMPLE 4</td>
<td>Study</td>
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</tr>
</tbody>
</table>

F = fall term (September to December); W = winter term (January to April); S = spring term (May to August)
learn by doing

Every Waterloo student has the opportunity to gain the hands-on experience employers want. Whether you opt for co-op or regular, build the experience you’ll need for what’s next through international exchanges, volunteering, labs, case studies, fieldwork, and leadership courses.

Traditional 4-year track
Plan your own summer experiences, enjoy continuity in campus activities, and graduate in only 4 years by enrolling in a traditional study program – at Waterloo, we call it “regular.”

Add global to your degree

CO-OP
Co-op opportunities are available in more than 60 countries around the world.

EXCHANGES
Choose from over 140 study-abroad opportunities in 36 countries such as the U.K., France, and Singapore.

PROGRAMS
Take a course with overseas fieldwork or learn another language – we offer over 100 language courses, one of the largest language course offerings in Canada.

Startup support
Waterloo is an entrepreneur’s paradise – a supportive place to create, develop, and grow your startup. We offer world-class people, resources, and funding that will help you bring your ideas to life.

VELOCITY
Find the space, resources, and mentorship you need to turn your idea into a startup through Velocity’s entrepreneurship programs.

ST. PAUL’S GREENHOUSE
Put your passion for social innovation and change to work by joining a live-in mentorship program in second year.

CONRAD ENTERPRISE CO-OP
Use your co-op term to start your own business and receive ongoing mentoring from the Conrad Business, Entrepreneurship and Technology Centre.
#1 in Canada for graduate employability
- QUACQUARELLI SYMONDS (QS) GLOBAL RANKING 2015

As a Waterloo student, you'll graduate with the skills, workplace experience, and professional network you need to launch your career. Through co-op work terms and off-campus learning opportunities, you'll learn about professions and careers you've never considered.

We asked 3,570 grads where their degrees had taken them. This image shows where Waterloo grads are making a difference.

To learn about where a Waterloo degree could take you, check out the career possibilities listed in the program descriptions on pages 20 to 27 or visit uwaterloo.ca/findoutmore/programs.

Continue your studies – choose from 190+ graduate programs

Waterloo is one of the most research-intensive universities in Canada. We’re the place industries, institutions, and governments turn to for answers. Your Waterloo bachelor’s degree will be a great foundation for graduate studies at leading universities – around the world and right here at Waterloo.

$181 million in research funding from government and industry

alumni making a difference in 148 countries

Canada’s top comprehensive research university
- RESEARCH INFOSOURCE

Education
» University of Illinois, Teaching Assistant
» Waterloo Region District School Board, French and Drama Teacher
» Upper Canada District School Board, Child and Youth Worker

Finance and Insurance
» CIBC, Pension Fund Accountant
» Manulife Financial Corporation, Actuary
» RBC Capital Markets, HR Associate
**Hospitality and Leisure**
- **Toronto Blue Jays Baseball Club**, Coordinator, Group Development
- **Toronto International Film Festival**, Coordinator, Donor and Member Relations
- **Stratford Festival**, Apprentice Stage Manager

**Professional Services**
- **Edward H. Royle & Associates**, Lawyer
- **CFMS-West Consulting Inc.**, Project Manager
- **Groundswell Urban Planners Inc.**, Planner

**Health Care and Social Services**
- **St. Francis Memorial Hospital**, Team Lead for Infection Control
- **Children’s Miracle Network**, Manager, Marketing and Communication
- **Doncrest Rehabilitation Centre**, Kinesiologist

**Utilities and Transportation**
- **Shell Canada Limited**, Project Development Engineer
- **FedEx**, Sales Analyst
- **Toronto Transit Commission**, Environmental Advisor

**Technology**
- **IBM**, Quality Assurance Analyst
- **Bell Canada**, Business Intelligence Specialist
- **Microsoft Corporation**, Program Manager

**Communications and New Media**
- **Facebook**, Software Engineer
- **The Sports Network (TSN)**, Web Developer
- **Directors Guild of Canada**, Assistant Director

**Government and Public Administration**
- **Indigenous and Northern Affairs Canada**, Research Officer
- **Ontario Provincial Police**, Special Constable
- **Environment Canada**, Meteorological Technologist

**Manufacturing and Retail**
- **De Beers Canada**, Environmental Officer
- **Baylis Medical Company**, Engineer
- **Toyota Motor Manufacturing Canada Inc.**, Human Resources Specialist
choose your residence

Find the residence that fits your budget and personality. [uwaterloo.ca/findoutmore/residence](http://uwaterloo.ca/findoutmore/residence)

» **Do you prefer a traditional residence?** Waterloo's residences offer a variety of room types and provide support, resources, and opportunities to get involved. Plus you can purchase the meal plan that suits your appetite.

» **Do you prefer apartment living?** Enjoy a great balance of privacy and social interaction in Waterloo's suite-style residence options. You can choose to add a meal plan or cook for yourself.

» **Do you prefer smaller communities?** Waterloo's University College residences offer you a traditional residence life on a smaller scale and an all-you-can-eat meal plan.

If you choose not to live in residence, our Off-Campus Housing staff can support you in finding a place to live.

sample room layouts

![Sample room diagrams](image)

### Traditional double room

![Traditional double room diagram](image)

### Suite-style living

![Suite-style living diagram](image)

14 Living-Learning Communities

Do you want to live with people who have similar interests? Our 14 Living-Learning Communities offer

» academic support and mentoring

» informal dinners with professors

» enrichment activities, such as one-on-one student success planning, study groups, and research workshops

where to eat

Bubble tea or burgers? Gyros or sushi? There are more than 40 places to eat on or near campus with your meal plan. If you need more options, there are more than 250 restaurants to explore in our city. You’ll also want to check out the UW Farm Market in the fall for fresh locally sourced produce.

getting around town

» Your student card gives you access to city buses.

» Complimentary shuttle services get you across campus.

» Enjoy the speed and convenience of ION, the city’s new Light Rail Transit, coming soon to our campus and community.

» Find tickets and stops for other transit on campus.
get involved

For the full Waterloo experience, make sure to check out our student clubs, teams, and events. Whatever your interests, Waterloo has something for you.

Clubs
Actor? Dancer? Coder? Juggler? Waterloo has a club for everyone. Choose from more than 200 academic, charitable, social, religious, political, sports, and cultural clubs - or start one of your own! For a full list of clubs, visit feds.ca.

Student government
Develop leadership skills as part of Waterloo’s Federation of Students. Not only does Feds facilitate all Waterloo clubs, they also provide student-run services, offer volunteer and job opportunities, and run major campus events. You’ll see Feds in action when you arrive in September - they run Welcome Week!

Sports
WARRIOR RECREATION
Stay fit and get connected by joining teams, classes, and tournaments offered by Waterloo’s Department of Athletics and Recreation. There are plenty of opportunities to get involved.

2,500
fitness classes per year, including power yoga, cycling, and Pilates

14
intramural sports leagues, including basketball, futsal, and dodgeball

22
instructional classes, including level II yoga, tai chi, and sports skills and drills

Or, stay active your way with 8 squash courts, 7 playing fields, conditioning rooms, fitness studios, an ice rink, bouldering wall, swimming pool, and golf simulator.

VARSITY TEAMS

| Co-ed || Male || Female ||
|--------|-------|--------|--------|
| Badminton || Curling ||
| Baseball || Field Hockey ||
| Basketball || Figure Skating ||
| Cheerleading || Football ||
| Cross-Country || Golf ||
| Ice Hockey || Nordic Skiing ||
| Rugby || Soccer ||
| Swimming || Tennis ||
| Track and Field || Volleyball ||

Visit gowarriorsgo.ca for details and schedules.
Have you wondered what to expect when you arrive on campus?

Waterloo students took to Instagram to give you a glimpse of our campus and student life. Follow them from morning to night, keeping in mind your experience will be uniquely yours. For more stories and photos, check out instagram.com/uwaterloolife or use #uwaterloolife to share your journey to Waterloo.

7 am hitting the gym

11 am sharing ideas and blueprints

12 pm grabbing lunch on campus

4 pm study session in the library

5 pm it’s the climb

6 pm performing with my club
global experiences

Who says you have to choose between going to university and travelling the world?

Whether you want to study, work, volunteer, or simply explore, Waterloo has programs and services that can help you meet your travel goals and fill your passport.
You’re eager to explore human nature and understand the world we live in. To look at civilization from the past, from another culture, and from a diverse set of viewpoints.

At Waterloo, you’ll learn how different perspectives and critical thinking can bring about change.

**PROGRAMS**

Program details: pages 20-27

» Anthropology
» Architecture
» Classical Studies
» Computer Science
  - Computational Fine Art*
» Economics
» English***
  - Literature
  - Literature and Rhetoric
  - Rhetoric, Media, and Professional Communication
» Fine Arts***
  - Studio Practice
  - Visual Culture
» Geography and Environmental Management
  » Global Business and Digital Arts
» History
» Honours Arts**
  » Honours Arts and Business**
» International Development
  » Knowledge Integration
  » Legal Studies
  » Medieval Studies
» Music
» Peace and Conflict Studies
» Philosophy
» Planning
» Political Science
» Psychology
» Public Health
» Recreation and Leisure Studies
» Recreation and Sport Business
» Religious Studies
» Sexuality, Marriage, and Family Studies
» Social Development Studies
» Social Work
» Sociology
» Speech Communication
» Theatre and Performance
» Tourism Development
» Women’s Studies

* An optional focus that you can add to the program listed above it
** 23 majors available for you to choose from
*** Students in this program choose a stream of study from the options listed

Seaming together passion and experience

Mark knew he wanted to pursue a career in design, he just didn’t know what opportunities were available. Waterloo’s Honours Arts and Business program helped him discover new options. Mark focused on theatre and design, while also studying the practical aspects of business and entrepreneurship. Combining these studies with co-op experience, Mark can enter the costume design industry equipped with skills, industry contacts, and an impressive portfolio.

At Waterloo, we help you fulfill your dreams.

uwaterloo.ca/findoutmore/mark
IN 2014/15, ALMOST $190 MILLION WAS INVESTED IN CURRENT STUDENT- AND ALUMNI-LED VENTURES.

Finding success on- and off-court
Russell took his Waterloo experience to the next level. When he wasn’t at varsity football practices or doing work for his Recreation and Sport Business classes, Russell found time to emcee athletic events on campus and develop campaigns to boost Warrior spirit, all the while enhancing his résumé with relevant off-campus jobs.

In all of these experiences, Russell grew his passion for sports entertainment. Shortly after graduation, Russell landed a dream position with Maple Leaf Sports & Entertainment, where he is now responsible for giving Raptors fans a memorable night in Toronto.

At Waterloo, we believe you can do it all.

You’ve been told that business is the way to go, but how do you stand out from the crowd? At Waterloo, you can combine practical business knowledge with in-demand technical skills to become the kind of university grad employers are eager to hire.

business, accounting, and finance

You've been told that business is the way to go, but how do you stand out from the crowd? At Waterloo, you can combine practical business knowledge with in-demand technical skills to become the kind of university grad employers are eager to hire.

PROGRAMS
Program details: pages 20-27

» Accounting and Financial Management
» Actuarial Science
  - Finance*
» Applied Mathematics
  - Economics*
» Biotechnology/Chartered Professional Accountancy
» Biotechnology/Economics
» Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
» Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
» Computational Mathematics
» Computing and Financial Management
» Economics
» Environment and Business
» Global Business and Digital Arts
» Honours Arts and Business**
» Information Technology Management
» Mathematical Economics
» Mathematical Finance
» Mathematical Optimization
» Mathematics/Business Administration
» Mathematics/Chartered Professional Accountancy
» Mathematics/Financial Analysis and Risk Management
» Political Science
  - Politics and Business*
  - Public Policy and Administration*
» Recreation and Sport Business
» Science and Business

* An optional focus that you can add to the program listed above it
** 23 majors available to choose from
Learning to seek and seize opportunities

Fourth-year Management Engineering student Hannah wraps up the wonders of Waterloo Engineering in one word: opportunity. As her track record shows, she knows a thing or two about opportunities. A member of the Engineering Federation Committee and President of Waterloo’s Engineering Society ‘B’, Hannah is always looking for ways to get involved. This passion and drive most recently helped her to land a coveted co-op work term placement in New York City, working as a Technology Analyst for Morgan Stanley.

At Waterloo, we bring opportunities to you.

uwaterloo.ca/findoutmore/hannah

PROGRAMS
Program details: pages 20-27

» Applied Mathematics  
  - Engineering Electives*
 » Architecture
 » Biomedical Engineering
 » Chemical Engineering
 » Civil Engineering
 » Computer Engineering
 » Computer Science
 » Electrical Engineering
 » Environmental Engineering
 » Geological Engineering
 » Global Business and Digital Arts
 » Knowledge Integration  
  - Collaborative Design*
 » Management Engineering
 » Mechanical Engineering
 » Mechatronics Engineering
 » Nanotechnology Engineering
 » Planning  
  - Urban Design*
 » Software Engineering
 » Systems Design Engineering

* An optional focus that you can add to the program listed above it

engineering, architecture, and design

You like to take things apart. Figure out how they work. Create new ideas and spaces in innovative and unconventional ways. Jump-start your career along with your curiosity. Waterloo’s commitment to hands-on learning means you’ll see the world in a whole new way.
For you, sustainability isn't a buzzword. It's your hope for the future. For more than 40 years, environmental responsibility has inspired Waterloo programs, including one of the first environmental faculties in Canada. Explore a range of possibilities for creating a better and greener world.

Bringing cotton from the fields of India to the cafés of Waterloo

Sometimes it’s not always clear just how far your influence can reach. Waterloo Environment graduates Carly and Dana extended their skills, savvy, and passion for social justice halfway around the world.

As part of a fourth-year research course, the pair worked with not-for-profit Khadi Organics to help Indian villagers market their sustainable cotton products at a fair price.

With the support of their professors and fellow students, they launched a website, rolled out a social media campaign, and located vendors in the City of Waterloo to carry scarves, napkins, and towels.

At Waterloo, we understand the value of community.

uwaterloo.ca/findoutmore/carly-dana
Keeping students healthy from the inside out

Tina knew how stressful school could be – especially during exams. The fourth-year Health Studies student had struggled to get her own stress under control and wanted to help others cope in a healthy way. Tina pitched her idea for a mental health first aid kit at the Big Ideas Challenge for Health and Wellbeing. Her pitch won her access to St. Paul's GreenHouse community, where she was given the tools and support to bring the idea to life.

The Panic, Anxiety & Stress Support kits, commonly known as PASS kits, were developed in consultation with mental health professionals and distributed to first-year students on campus.

At Waterloo, we believe that change is just around the corner.

uwaterloo.ca/findoutmore/tina
Gain overseas work experience: There were more than 2,300 international work terms available last year.

International studies and languages

Your dream is to explore the global village. In books. In person. In another language. To experience the places and cultures you see in the news. Waterloo can take you behind the headlines.

At Waterloo, your learning can extend beyond campus to the Great Wall of China, the top of the Eiffel Tower, or in Rasha’s case, the busy streets of Vietnam. This International Development student completed an 8-month placement in Hanoi, Vietnam at the Center for Development of Community Initiative and Environment.

As part of the Faculty of Environment’s International Development program, Rasha’s guaranteed overseas placement provided her with the opportunity to not only help an organization make Vietnam more sustainable but also to develop as a future leader.

At Waterloo, you’ll travel far beyond the lecture hall.

uwaterloo.ca/findoutmore/rasha

Programs

Program details: pages 20-27

» French
  - French Teaching Specialization*

» German

» Global Business and Digital Arts

» History
  - Global Interactions*
  - International Relations*

» International Development

» Peace and Conflict Studies
  » Political Science
    - Global Governance*
    - International Relations*

» Spanish
  » Tourism Development

*An optional focus that you can add to the program listed above it
WATERLOO HAS WON MORE TOP 5 TITLES IN THE PRESTIGIOUS PUTNAM COMPETITION THAN ANY OTHER CANADIAN UNIVERSITY. WILL YOU BE ON THE NEXT TEAM?

You like solving interesting, meaningful problems using computers and mathematics. Surround yourself with the world’s top minds in mathematics and computer science at Waterloo.

PROGRAMS
Program details: pages 20-27

» Accounting and Financial Management
  » Actuarial Science
    » Finance*
  » Applied Mathematics
    » Economics*
    » Engineering Electives*
    » Scientific Computation*
  » Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
  » Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
» Combinatorics and Optimization
» Computational Mathematics
  » Computer Engineering
    » Computer Science
      » Bioinformatics*
      » Business*
      » Computational Fine Art*
      » Digital Hardware*
      » Health Informatics*
      » Human-Computer Interaction*
      » Software Engineering*
  » Computing and Financial Management
    » Electrical Engineering
      » Geomatics
    » Global Business and Digital Arts
      » Health Studies
        » Health Informatics*
  » Information Technology Management
  » Management Engineering
    » Software Engineering and Information Technology*
  » Mathematical Economics
    » Mathematical Finance
    » Mathematical Optimization
      » Business*
      » Operations Research*
  » Mathematics/Business Administration
    » Mathematics/Chartered Professional Accountancy
  » Mathematics/Financial Analysis and Risk Management
  » Mathematics/Teaching
  » Mechatronics Engineering
  » Nanotechnology Engineering
    » Physical Sciences
      » Mathematical Physics*
  » Pure Mathematics
    » Teaching*
  » Software Engineering
    » Statistics
    » Statistics for Health

* An optional focus that you can add to the program listed above it

Bringing friends closer through mobile technology

Imagine taking a picture of your friends and discovering an awkward amount of space between them. Now imagine being able to delete that space without compromising the picture’s quality.

Computer Science major Rudi and Software Engineering student Shida developed a smart resizing app that allows the user to edit out unnecessary spaces in photos – an idea that helped them win the Nokia Imaging Hackathon in Lund, Sweden.

At Waterloo, we like to make things better.

uwaterloo.ca/findoutmore/rudi-shida
Making yourself at home

Every off-campus student finds an on-campus home. Just ask fourth-year Biology student Ayan. She may live in town with her family, but while at Waterloo the iGEM lab is her home.

Together with Waterloo’s International Genetically Engineered Machines (iGEM) Team, Ayan is building synthetic biology projects that address real-world problems. Outside the lab, Ayan’s interest in genetics has taken her to a conference in the United Kingdom and fueled her participation in a Velocity Science start up.

At Waterloo, we encourage you to explore your passion.

uwaterloo.ca/findoutmore/ayan
over 100 programs

ORDER A BROCHURE
Choose from 21 program brochures at uwaterloo.ca/findoutmore/order.

W = One-of-a-kind program in Canada.

E = Entry-level program – apply directly through Ontario Universities’ Application Centre (OUAC). See page 35 for details.

M = Major – subject of major interest, apply through entry-level program (E).

ARCHITECTURE | SCHOOL OF ARCHITECTURE (E, Bachelor of Architectural Studies) Co-op only
Design the buildings and spaces that enhance the quality and beauty of our world. From the first day of classes, you’ll work in a bright studio while examining the close relationship between architecture, the environment, and society.

Sample courses: Design Studio, Cultural History, Visual and Digital Media, Environmental Building Design, Advanced Structures: Design and Analysis

Career possibilities: Architect, project manager, designer, architectural assistant

BIOCHEMISTRY | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor | Apply to Life Sciences on your OUAC application
Concentrated biology and chemistry courses along with extensive lab experience will prepare you for a career in forensic science, pharmaceuticals, medical diagnostics and analysis, agriculture, biochemical research, microbiology, biotechnology, or genetic engineering.

Sample courses: Fundamentals of Metabolism, Analytical Chemistry, Environmental and Natural Biochemistry

Career possibilities: Toxicologist, biomaterials researcher, health care professional

BIOLOGY | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor | Apply to Life Sciences on your OUAC application
Gain insight into our understanding of life by studying the workings of living organisms, where they come from, and how they evolve and function. Specialize in animal biology, environmental biology, microbiology, biotechnology, plant biology, or molecular genetics.

Sample courses: Plants and Civilization, Organisal and Evolutionary Ecology, Diversity of Life

Career possibilities: Biologist, veterinarian, environmental consultant, physician, pharmacist, optometrist

BIOMEDICAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Use engineering principles in biology, mechanics, physics, system analysis, and design to improve health care and quality of life. In this interdisciplinary program, you’ll get hands-on experience studying biological and medical systems. By graduation, you’ll be prepared for a variety of careers creating new technologies for health care or athletics.

Sample courses: Introduction to Biomedical Design, Engineering Biology, Anatomical Systems Modelling

Possible professional designations: Professional Engineer

Career possibilities: Research and development of medical devices, biomedical data analysis, product design of sporting equipment

BIOMEDICAL SCIENCES | FACULTY OF SCIENCE (M, Bachelor of Science) Apply to Life Sciences on your OUAC application
Get ready for your career in health with this flexible program that provides the foundation and experience required to succeed in virtually any professional health program in North America.

Sample courses: Human Anatomy, Biology of Human Aging, Cell Biology of Human Disease

Career possibilities: Pharmacist, optometrist, physician

ANTHROPOLOGY | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business
Discover what it means to be human through the examination of fossils and bones, lab work, and field experiences in the Mediterranean, the Arctic, or Africa. You’ll draw upon contemporary cultural issues such as violence and media as well as study evolution to discover more about humans and what makes us tick.

Sample courses: Biological Anthropology, Skeletal Biology and Forensics, Archaeological Anthropology

Career possibilities: Archaeologist, curator of natural property, heritage planner

APPLIED MATHEMATICS | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available | Also available as a minor
Combine math with computer science, engineering, and physics to solve communication and control-system problems. Specialize in biology, economics, earth sciences, physics, scientific computation, or take engineering electives.

Sample courses: Applied Complex Analysis, Introduction to Computational Mathematics, Introduction to Differential Equations

Career possibilities: Researcher, software developer, analyst

ACTUARIAL SCIENCE | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available | Also available as a minor
Use math and statistics to predict uncertain events such as stock market performance or insurance and pension income. Prepare for your professional actuary designation with courses in finance, risk theory, and pensions.

Sample courses: Corporate Finance, Applied Probability, Introduction to Investments

Career possibilities: Actuarial analyst, consultant, financial analyst

W - ACCOUNTING AND FINANCIAL MANAGEMENT | FACULTY OF ARTS (E, Bachelor of Accounting and Financial Management) Co-op only
This program is about accounting, finance, and business and how they interrelate. It covers aspects of economics with a practical and professional focus.

Sample courses: Introduction to Global Financial Markets; Corporate Finance; Accounting, Assurance, and the Law

Possible professional designations: Chartered Professional Accountant (CPA), Certified Internal Auditor (CIA), Chartered Financial Analyst (CFA), or Chartered Business Valuator (CBV)

Career possibilities: Chartered Professional Accountant, Chartered Financial Analyst, research analyst, investment banker

ARCHITECTURE | SCHOOL OF ARCHITECTURE (E, Bachelor of Architectural Studies) Co-op only
Design the buildings and spaces that enhance the quality and beauty of our world. From the first day of classes, you’ll work in a bright studio while examining the close relationship between architecture, the environment, and society.

Sample courses: Design Studio, Cultural History, Visual and Digital Media, Environmental Building Design, Advanced Structures: Design and Analysis

Career possibilities: Architect, project manager, designer, architectural assistant

BIOCHEMISTRY | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor | Apply to Life Sciences on your OUAC application
Concentrated biology and chemistry courses along with extensive lab experience will prepare you for a career in forensic science, pharmaceuticals, medical diagnostics and analysis, agriculture, biochemical research, microbiology, biotechnology, or genetic engineering.

Sample courses: Fundamentals of Metabolism, Analytical Chemistry, Environmental and Natural Biochemistry

Career possibilities: Toxicologist, biomaterials researcher, health care professional

BIOLOGY | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor | Apply to Life Sciences on your OUAC application
Gain insight into our understanding of life by studying the workings of living organisms, where they come from, and how they evolve and function. Specialize in animal biology, environmental biology, microbiology, biotechnology, plant biology, or molecular genetics.

Sample courses: Plants and Civilization, Organisal and Evolutionary Ecology, Diversity of Life

Career possibilities: Biologist, veterinarian, environmental consultant, physician, pharmacist, optometrist

BIOMEDICAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Use engineering principles in biology, mechanics, physics, system analysis, and design to improve health care and quality of life. In this interdisciplinary program, you’ll get hands-on experience studying biological and medical systems. By graduation, you’ll be prepared for a variety of careers creating new technologies for health care or athletics.

Sample courses: Introduction to Biomedical Design, Engineering Biology, Anatomical Systems Modelling

Possible professional designations: Professional Engineer

Career possibilities: Research and development of medical devices, biomedical data analysis, product design of sporting equipment

BIOMEDICAL SCIENCES | FACULTY OF SCIENCE (M, Bachelor of Science) Apply to Life Sciences on your OUAC application
Get ready for your career in health with this flexible program that provides the foundation and experience required to succeed in virtually any professional health program in North America.

Sample courses: Human Anatomy, Biology of Human Aging, Cell Biology of Human Disease

Career possibilities: Pharmacist, optometrist, physician
**W - BIOTECHNOLOGY/CHARTERED PROFESSIONAL ACCOUNTANCY | FACULTY OF SCIENCE (E, Bachelor of Science)** Co-op only

The only program in Canada to combine biotechnology and accounting with paid co-op work terms. Prepare for roles in professional accountancy and advisory services in the growing biotechnology sector. Upon graduation, you’ll be eligible to earn your Master of Accounting (MAcc) degree in only 8 months – an optional next step in becoming a Chartered Professional Accountant (CPA).

Sample courses: Animal Cell Biotechnology, Introduction to Managerial Accounting, Introductory Statistics and Sampling for Accounting

Career possibilities: CPA, finance coordinator, analyst

**W - BIOTECHNOLOGY/ECONOMICS | FACULTY OF SCIENCE (E, Bachelor of Science)** Co-op only

The only program in Canada to integrate biotechnology, economics, and paid co-op work terms. As a trained economist, help the world capitalize on breakthrough biotech products like tumour-fighting immune cells and oil-eating bacteria.

Sample courses: Fermentation Biotechnology, Biostatistics and Experimental Design, Econometrics

Career possibilities: Economist, biotechnologist, business and customer insights analyst, financial security advisor

**W - BUSINESS ADMINISTRATION (Laurier) AND COMPUTER SCIENCE (Waterloo) DOUBLE DEGREE | SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Business Administration and Bachelor of Computer Science)** Co-op only

Earn 2 degrees in 5 years while exploring the ever-changing world of computer science and business. Learn about software, algorithms, programming, and the limits of computation through Computer Science at Waterloo and brand communication, accounting, human resources, marketing, and finance through business at Laurier.

Sample courses: Designing Functional Problems, Understanding the Business Environment, Computer Organization and Design

Possible professional designations: Canadian Information Processing Society (Waterloo), Chartered Professional Accountant (Laurier)

Career possibilities: Business analyst, software engineer, application developer

**W - BUSINESS ADMINISTRATION (Laurier) AND MATHEMATICS (Waterloo) DOUBLE DEGREE | FACULTY OF MATHEMATICS (E, Bachelor of Business Administration and Bachelor of Mathematics)** Co-op only

Develop superior analytical and problem-solving skills in the most technical business program in Canada. Earn 2 degrees from 2 top universities in just 5 years.

Sample courses: Financial Mathematics, Information Systems Management, Introduction to Optimization

Career possibilities: Securities trader, management analyst, corporate strategist

**CHEMICAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science)** Co-op only

Design, implement, and supervise processes for the manipulation of matter. You’ll learn to transform raw materials into useful products for almost any industry – biotechnology, pollution control, alternative fuels, and power storage, to name a few!

Sample courses: Materials Science and Engineering, Bioprocess Engineering, Process Analysis and Design

Possible professional designation: Professional Engineer

Career possibilities: Design and creation of pharmaceuticals, manufacturing of microelectronics, process engineering of petrochemicals

**CHEMISTRY | FACULTY OF SCIENCE (M, Bachelor of Science)** Co-op available | Also available as a minor | Apply to Physical Sciences on your OUAC application

In one of Canada’s top 5 chemistry programs, you’ll learn from leading experts in the industry. Work with advanced chemical instrumentation and participate in cutting-edge research. Program accredited by the Canadian Society for Chemistry and the Chemical Institute of Canada.

Sample courses: Multi-Component Analysis, Structure and Bonding, Methods and Tools for Biosynthesis

Career possibilities: Analytical chemist, chemistry patents agent, forensic scientist

**CIVIL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science)** Co-op only

Learn to design, construct, and manage the safe and sustainable infrastructure on which society depends – like waterways, transportation systems, and pollution control systems. In Canada’s largest civil engineering program, you’ll have the ability to tailor your degree to your own specific interests, with specialization options in transportation, structures, water resources, and more.

Sample courses: Engineering and Sustainable Development, Transportation Engineering Applications, Structural Design

Possible professional designation: Professional Engineer

Career possibilities: Design and creation of stadiums and entertainment facilities, implementation of water systems, construction site management

**CLASSICAL STUDIES | FACULTY OF ARTS (M, Bachelor of Arts)** Co-op available if you enroll in Honours Arts and Business

Join Plato and Aristotle in the Ancient world. Gain a deep understanding of history, culture, literature, religion, art, philosophy, and society. Benefit from field experience in the Mediterranean, mainly in Greece and Italy. Language courses are optional.

Sample courses: Greek Art and Architecture, Astrology and Magic, Roman History

Career possibilities: Project manager, reference librarian, academic manager

**COMBINATORICS AND OPTIMIZATION | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics)** Co-op available | Also available as a minor

Combinatorics is the math of finite structures; optimization improves efficiency. Take courses in cryptography, graph theory, and linear programming to model and solve problems in security, scheduling, and management.

Sample courses: Introduction to Combinatorics, Introduction to Optimization, Coding Theory

Career possibilities: Developer, analyst, researcher

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**why study “just” business?**

6,300 global employers shaped the curriculum of our business, finance, and accounting programs. Graduate with the specialized knowledge and business proficiency employers want. Choose a business-related program, or customize your degree with relevant business courses, and set yourself up for success.

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20% of Waterloo undergraduate students are studying business, finance, or accounting
**PROGRAM DETAILS**

**COMPUTATIONAL MATHEMATICS | FACTURY OF MATHEMATICS (M, Bachelor of Mathematics)** Co-op available | Also available as a minor
Combine math and computer science to develop skills in the computer modelling of mathematical problems found in business, economics, engineering, finance, medicine, and science. Use computing to solve industrial-sized math problems.

**Sample courses:** Data Structures and Data Management, Logic and Computation, Computer Simulation of Complex Systems

**Career possibilities:** Project manager, enterprise architect, software developer

**COMPUTER ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science)** Co-op only
Build and test computer hardware and software, and work with larger engineered systems in distributed, networked environments. You’ll explore cutting-edge topics and get experience in state-of-the-art labs that reflect modern research and development, like wireless systems and smart homes.

**Sample courses:** Digital Circuits and Systems, Operating Systems and Systems Programming, Computer Networks

**Possible professional designation:** Professional Engineer

**Career possibilities:** Design of computer or software architecture, manufacturing telecommunication devices, creation of application software

**COMPUTER SCIENCE | SCHOOL OF COMPUTER SCIENCE (E, M, Bachelor of Computer Science or Bachelor of Mathematics)** Co-op available | Also available as a minor
While building a comprehensive foundation on the principles of computer science, you’ll learn how to design, analyze, and implement innovative software for modern computer systems and have the flexibility to explore exciting application areas.

**Sample courses:** Designing Functional Programs, Data Structures and Data Management, Operating Systems

**Possible professional designation:** Canadian Information Processing Society (CIPS)

**Career possibilities:** Software developer, software manager, web developer, project manager

**W – COMPUTING AND FINANCIAL MANAGEMENT | FACULTY OF ARTS | FACULTY OF MATHEMATICS (E, Bachelor of Computing and Financial Management)** Co-op only
Develop expertise in both computer science and finance. Combine this interdisciplinary knowledge with 6 co-op work terms in software development, banking, investments, risk management, or insurance to become a versatile professional in the marketplace.

**Sample courses:** Object-Oriented Software Development, Regression and Forecasting Methods in Finance, Equity Investments

**Possible professional designations:** Chartered Financial Analyst (CFA)

**Career possibilities:** Software developer, quantitative analyst, investment banking analyst

**EARTH SCIENCES | FACULTY OF SCIENCE (M, Bachelor of Science)** Co-op available | Also available as a minor | Apply to Physical Sciences on your OUAC application
Explore the world under your feet in close-knit classes and on field trips taught by professors known internationally for their geological and water research.

**Sample courses:** Geomorphology and GIS Applications, Volcanology and Igneous Petrology, Earth from Space Using Remote Sensing

**Career possibilities:** Hydrogeologist, geologist, geophysicist

**ECONOMICS | FACULTY OF ARTS (M, Bachelor of Arts)** Co-op available if you enroll in Honours Arts or Honours Arts and Business
Learn how wealth is produced, distributed, and consumed and how it shapes society, politics, and culture. Courses cover finance, public policy, and international economics.

**Sample courses:** Economic of Sport, Business Finance, Marketing and Consumer Economics

**Career possibilities:** Financial planner, manager of marketing research, financial analyst, economist, manager of international finance

**ELECTRICAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science)** Co-op only
Master electronic and electromagnetic design principles and build the latest technologies in power, information, and energy. You’ll explore electronic devices, control systems, and digital systems in labs. By graduation, you’ll be ready to design, build, and integrate reliable and efficient technologies for a range of industries.

**Sample courses:** Digital Circuits and Systems, Electromagnetic Fields and Waves, Embedded Microprocessor Systems

**Possible professional designation:** Professional Engineer

**Career possibilities:** Product development of telecommunications systems, software quality assurance analysis, electric equipment manufacturing

**ENGLISH | FACULTY OF ARTS (M, Bachelor of Arts)** Co-op available if you enroll in Honours Arts or Honours Arts and Business
Examine English literature, language, and new media while developing your ability to professionally communicate and persuade. Choose from 5 paths: Literature, Rhetoric, Media, and Professional Communication; or Literature and Rhetoric.

**Sample courses:** Popular Poet, Game Studies, Global Shakespeare

**Specializations:** Digital Media Studies or English Literature in a Global Context

**Career possibilities:** Communications manager, media relations specialist, technical writer, publisher, social media strategist

**W – ENVIRONMENT AND BUSINESS | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies)** Co-op only
Stand out to future employers with your business acumen and understanding of environmental issues. Gain expertise in stakeholder engagement, industrial ecology, and environmental decision-making while developing core business skills in finance, project management, accounting, marketing, and law.

**Sample courses:** International Corporate Responsibility, Green Entrepreneurship, Business Finance

**Career possibilities:** Environmental and regulatory advisor, sustainability analyst, environmental stewardship manager

**ENVIRONMENT, RESOURCES AND SUSTAINABILITY | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies)** Co-op available | Also available as a minor
Use insights from the natural, physical, and social sciences to help solve some of the world’s biggest environmental challenges, from water and food to energy and biodiversity. Learn about conserving and restoring ecosystems and explore issues in environmental politics, policy and governance.

**Sample courses:** The Politics of Sustainable Communities, Environmental Analysis and Solutions, Ecosystem Assessment

**Possible professional designations:** Diploma in Environmental Assessment, Diploma in Ecological Restoration and Rehabilitation

**Career possibilities:** Territorial and wetland biologist, sustainability policy analyst, sustainable energy consultant

**ENVIRONMENTAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science)** Co-op only
Explore a combination of environmental and engineering-related courses, and use sustainable engineering practices to prevent pollution, treat waste water, restore watersheds, and more. You’ll get a broad education in environmental sciences while developing quantitative skills to manage, protect, and rehabilitate our natural world.

**Sample courses:** Earth Engineering, Environmental and Sustainability Assessment, Environmental Modelling

**Possible professional designation:** Professional Engineer

**Career possibilities:** Product design for air pollution control systems, process design for water treatment, transportation and infrastructure planning

**ENVIRONMENTAL SCIENCE | FACULTY OF SCIENCE (E, Bachelor of Science)**
Ranked among the top 5 in Canada, this program provides learning in the lab and field, giving you a scientist’s perspective on ecological and geological systems. Option to specialize in ecology or geoscience. Accredited by the Association of Professional Geoscientists of Ontario.

**Sample courses:** Organismal and Evolutionary Ecology, Mineralogy, Applied Wetland Science

**Career possibilities:** Geoscientist, ecologist, environmental consultant

**FINE ARTS | FACULTY OF ARTS (M, Bachelor of Arts)** Co-op available if you enroll in Honours Arts and Business
Develop a critical understanding of art through painting, drawing, sculpture, printmaking, computer imaging, art history, and film studies. Add the Teaching Specialization to earn a Bachelor of Education. Choose Visual Culture or Studio Practice as your major.

**Sample courses:** History of Film and Visual Media, Observational Drawing, Digital Imaging

**Career possibilities:** 3D visual effects artist, illustrator, teacher, web designer, curator, interior designer, art therapist
FRENCH | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business

Obtain valuable language skills for careers in government or business. You can include a year of study in Québec or France, or choose the French Teaching Specialization to add a Bachelor of Education from Nipissing University.

Sample courses: Introduction to Translation, Business French, Children’s Literature in French

Career possibilities: Director of international sales, immigration officer, insolvency administrator, translator, teacher

W - GEOGRAPHY AND AVIATION | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies)

Earn a Bachelor of Environmental Studies while completing flight training to acquire your Commercial Pilot Licence. Gain a deep understanding of landforms, weather patterns, and the computer technology behind tools such as geographic information systems (GIS) and remote sensing.

Sample courses: Geography and Our Planetary Environment, Principles of GIS, Professional Pilot Program Course

Possible professional designation: Students graduate with a Commercial Pilot Licence

Career possibilities: King Air 350 co-pilot, pilot, flight training instructor

GEODESICS | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available

Also available as a minor

Combines earth sciences with civil engineering to design safe and durable structures, locate and explore deposits of natural resources, and improve safety during environmental disasters. You’ll get outside the classroom more than any other engineering program, developing field techniques and building your theoretical knowledge to real-world projects.

Sample courses: Earth Engineering, Structural Geology, Applied Geophysics

Possible professional designation: Professional Engineer

Career possibilities: Site investigation of mines and quarries, hazard and risk assessment of landslides and earthquakes, design of subsurface infrastructure

GEOMATIC | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available

Join one of the fastest growing fields by combining the power of computing with geographic and environmental analysis. You’ll learn to use tools such as remote sensing, computer mapping, geographic information systems (GIS), and GPS to analyze information and make meaningful decisions.

Sample courses: Earth from Space Using Remote Sensing, Geodesy and Surveying, Geoweb and Location-Based Services

Possible professional designation: Data analyst, GIS operator, remote sensing specialist

GERMAN | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business

Combine German language, communications, and cultural studies. Develop valuable skills for careers in business, politics, and government. Enhance your experience by studying in Germany.

Sample courses: German through Comics, German for Professional Purposes, German Filmmakers in Hollywood

Career possibilities: Editor and communications manager, business analyst, sales manager

GLOBAL BUSINESS AND DIGITAL ARTS | FACULTY OF ARTS (E, Bachelor of Global Business and Digital Arts) Lead business into the future using the power of digital media. Study cross-cultural communication and management, digital design, and emerging technologies. Enhance your studies with a paid internship. Spend 2 years at the Waterloo campus and then 2 years at our digital media campus in nearby Stratford.

Sample courses: Digital Media Design and Production, Marketing in the Digital World, Applied Leadership and Management

Possible professional designation: Work towards project management certification

Career possibilities: User experience designer, social media manager, digital marketing specialist, project manager

HEALTH STUDIES | FACULTY OF APPLIED HEALTH SCIENCES (E, Bachelor of Science) Co-op available

Prepare for professional health programs such as medicine, pharmacy, and nursing. Learn how to prevent disease by studying the factors that determine health and ill health.

Sample courses: Psychological Determinants of Health; Development, Aging, and Health; Environmental Toxicology and Public Health

Possible professional designations: Gerontology, Health Informatics, Health Research Professions

Career possibilities: Health professional (medical doctor, nurse, epidemiologist, occupational therapist, midwife, genetic counsellor), research coordinator, health informatics consultant

HISTORY | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts or Honours Arts and Business

Go back in time and see for yourself that history is more than just memorizing facts. You’ll develop analytical skills and a knack for seeing patterns from the past that can influence the future. Focus on Canadian, American, European, or international history.

Sample courses: Rock ‘n’ Roll and US History, Russia: From Tsars to Putin, Aboriginal History of Canada

Possible professional designations: Global Interactions; Revolution, War, and Upheaval; Applied History, or International Relations

Career possibilities: Government affairs manager, executive researcher, lawyer, director of government relations

HONOURS ARTS | FACULTY OF ARTS (E, Bachelor of Arts)

With 23 majors, Honours Arts provides choice and flexibility. Explore a variety of Arts subjects or select a major and immerse yourself in the humanities, social sciences, fine and performing arts, and languages and cultures. Co-op is available in some majors. Refer to your specific major of interest (M) for course listings and career possibilities.

W - HONOURS ARTS AND BUSINESS | FACULTY OF ARTS (E, Bachelor of Arts)

Co-op available

Combine one of 23 Honours Arts majors with business-related studies. Choose co-op and be a part of the largest co-op program in the world. Refer to your specific major of interest (M) for sample courses and career possibilities.

Possible professional designation: Work towards project management certification
KINESIOLOGY | FACULTY OF APPLIED HEALTH SCIENCES (E, Bachelor of Science) Co-op available
Prepare for professional health programs such as medicine, physiotherapy, and chiropractic. Study the multidisciplinary science of human movement and learn how to prevent, assess, and treat movement-related illness and injury.

Sample courses: Human Anatomy: Limbs and Trunk; Clinical Neurophysiology; Fundamentals for Rehabilitation of Human Movement; Musculoskeletal Injuries in Work and Sport.

Specializations: Ergonomics and Injury Prevention, Human Nutrition, Pre-Health Professions, Rehabilitation Sciences
Possible professional designation: Prepared to register as a kinesiologist (Ontario)
Career possibilities: Health professional (medical doctor, physical therapist, occupational therapist, athletic therapist, kinesiologist, chiropractor), ergonomist, rehabilitation specialist

W – KNOWLEDGE INTEGRATION | FACULTY OF ENVIRONMENT (E, Bachelor of Knowledge integration) Also available as a minor
More than a traditional arts and science program, Knowledge Integration lets you explore and integrate your many interests. Pursue a traditional specialization or create one that is uniquely yours. Develop skills in design thinking, creative problem solving, and collaboration to make a difference in the world.

Sample courses: The Social Nature of Knowledge, Creative Thinking, Real World Problem Solving
Career possibilities: Business analyst, design strategist, user experience researcher

LEGAL STUDIES | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enrol in Honours Arts and Business
Understand the origins and impact of legal systems from the viewpoint of political science, history, sociology, philosophy, and peace and conflict studies. You’ll develop an appreciation of the role of law in society and explore it as a career option.

Sample courses: Criminology, Women and the Law, Children’s Rights in Canada
Career possibilities: Legal assistant, records clerk, executive researcher, probation and parole officer, lawyer

LIFE PHYSICS | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor (biophysics) | Apply to Life Sciences on your OUAC application
Prepare for professions that harness the power of physics, such as radiation oncology and medical imaging. If you enjoy biology and physics and are interested in health-related careers, this program may be a perfect fit.

Sample courses: Medical Physics; Biophysics of Imaging; Special Topics in Life, Medical and Biophysics
Career possibilities: Medical physicist, physician, biophysicist

LIFE SCIENCES | FACULTY OF SCIENCE (E, Bachelor of Science)
An OUAC entry program leading to the following majors (M) that begin in your first year: Biochemistry, Biology, Biomedical Sciences, Life Physics, or Psychology. Refer to your specific major for details.

W – MANAGEMENT ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Discover how to move beyond traditional approaches to management using engineering practices. You’ll design and implement the systems on which organizations depend while studying information technologies, business strategy, and economic trends. You’ll become an invaluable asset, with the ability to optimize management systems to make organizations more efficient and profitable.

Sample courses: Work Design and Facilities Planning, Managerial and Cost Accounting, Organizational Behaviour
Possible professional designation: Professional Engineer
Career possibilities: Design and implementation of information technologies, operations research, and development of new strategies

MATERIALS AND NANO SCIENCES | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Apply to Physical Sciences on your OUAC application
Learn to harness the power of physics and chemistry to develop new nano-sized solutions for society in a region that’s fast becoming known as Canada’s Quantum Valley.

Sample courses: Materials and Nanosciences in the Modern World, Chemistry and the Solid State, Nanophysics
Career possibilities: Materials scientist, nanotechnologist, materials process specialist

MATHEMATICAL ECONOMICS | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Learn about the mathematical models found in economic theory and the many advances in mathematics derived from problems in economics. Prepare for graduate school or a career in banking, government, or industry.

Sample courses: Microeconomic Theory, Macroeconomic Theory, Differential Equations for Business and Economics
Career possibilities: Business analyst, econometrician, consultant

MATHEMATICAL FINANCE | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Become a student of the most advanced undergraduate finance program in the world. You’ll be among others with elite mathematical abilities who wish to pursue finance combined with pure math.

Sample courses: Introduction to Investments, Forecasting, Real Analysis
Career possibilities: Controller, compliance analyst, investment policy analyst

MATHEMATICAL OPTIMIZATION | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Help find solutions to major issues involving the scarcity of resources, like enhancing the scheduling for airline crews and sports games or improving the production and distribution efficiency for manufacturing companies. You’ll learn about mathematical modelling using case studies and courses in optimization, probability, statistics, and computer science in combination with courses in business, economics, and management science. Specialize in business or operations research.

Sample courses: Introduction to Computational Mathematics, Computer Simulation of Complex Systems, Portfolio Optimization Models
Career possibilities: Business analyst, information technology architect, risk analyst

MATHEMATICAL PHYSICS | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Prepare for graduate studies or a career in the semiconductor industry, telecommunications, or medical technology. The focus is on the advanced math needed for the study of physics and includes courses in computational mathematics or computer science.

Sample courses: Waves, Electricity, and Magnetism; Introduction to Theoretical Mechanics; Quantum Theory
Career possibilities: Operations specialist, information technology architect, lecturer

MATERIALS/ENGINEERING PHYSICS | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Apply to Physical Sciences on your OUAC application
Prepare for careers that range from the theoretical foundations of quantum technologies to the mathematically intensive unified theories of nature. This program is similar to the Physics program but with an emphasis on the mathematical and theoretical sides of physics.

Sample courses: Modern Physics, Quantum Theory, Introduction to General Relativity
Career possibilities: Theoretical physicist, data scientist, quantitative analyst

MATHEMATICS | FACULTY OF MATHEMATICS (E, Bachelor of Mathematics) Co-op available
Mathematics is an entry program that leads to the following math majors (M): Actuarial Science, Applied Mathematics, Combinatorics and Optimization, Computational Mathematics, Computer Science, Mathematical Optimization, Mathematical Studies, Mathematics/Teaching, Pure Mathematics, Statistics

MATHEMATICS/BUSINESS ADMINISTRATION | FACULTY OF MATHEMATICS (E, Bachelor of Mathematics) Co-op available
Combine courses in math and computer science with business and economics courses from nearby Wilfrid Laurier University. You’ll be prepared to take on the world of business with your technical expertise.

Sample courses: Corporate Finance, Introduction to Managerial Accounting, Organizational Behaviour
Career possibilities: Operations manager, risk modelling analyst, investor relations specialist

W – MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY | FACULTY OF MATHEMATICS (E, Bachelor of Mathematics) Co-op only
Earn a Bachelor of Mathematics as you prepare for a career as a Chartered Professional Accountant (CPA). Acquire a strong background in the mathematical field of your choice, combined with equally focused studies in accounting, economics, and business.

Sample courses: Introduction to Financial Accounting, Cost Management Systems, Corporate Finance
Career possibilities: Chartered Professional Accountant (CPA), controller, auditor
W - MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT | FACULTY OF MATHEMATICS (E, Bachelor of Mathematics) Co-op available
Combine mathematics with finance, accounting, economics, and risk management to prepare for a career in banking, investment management, and risk management. Specialize in either chartered financial analysis or risk management, and prepare for professional exams such as the Chartered Financial Analyst exam.
Sample courses: Computational Methods in Business and Finance, Applied Linear Models and Process Improvement for Business, Commercial and Business Law for Mathematicians
Career possibilities: Financial analyst, risk analyst, investment analyst

MATHMATICS/TEACHING | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op only
Share your love of math and become a mathematics teacher. Combine your math, statistics, and computer science courses with practical classroom experience.
Sample courses: Introduction to Mathematics Education, Educational Psychology, Mathematical Discovery and Invention
Career possibilities: Teacher, online learning consultant, instructional media developer

MECHANICAL ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Study and harness the power of mechanical design, with a wide range of engineering topics and labs that let you get your hands dirty. You’ll consider a range of factors, including the environment, safety, manufacturing processes, and materials, to create mechanical systems that improve human life.
Possible professional designation: Professional Engineer
Career possibilities: Design of aerospace accessories, manufacturing of wind turbines, research and development in automotive technologies

MECHATRONICS ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Combine mechanical, electrical, computer, and software engineering to build smart machines like robots, intelligent vehicles, and aerospace control systems. In Canada’s only full Mechatronics Engineering program, you’ll get practice through labs and co-op, letting you dissect and build electro-mechanical devices, starting in your first year.
Sample courses: Sensors and Instrumentation, Microprocessors and Digital Logic, Structure and Properties of Materials
Possible professional designation: Professional Engineer
Career possibilities: Manufacturing and programming of robotic devices, design of biomedical instruments, design and creation of wearable technology

MEDICINAL CHEMISTRY | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op only | Apply to Physical Sciences on your OUAC application
Explore the science of drug discovery in this exciting program that includes learning in computer-aided drug design. Train as a chemist who can design, synthesize, and evaluate potential drugs.
Sample courses: Structure and Bonding, Transition Element Compounds and Inorganic Materials, Medicinal Chemistry
Career possibilities: Medicinal chemist, research chemist, synthetic chemist

MEDIEVAL STUDIES | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business
Gain knowledge of the Middle Ages, which is vital to understanding modern civilization. Areas of study include history, Latin, modern European languages, fine arts, philosophy, religious studies, and classical studies.
Sample courses: Medieval Society, Great Works: Ancient and Medieval, Old English
Career possibilities: Professional writer, librarian, historical site manager, teacher

MUSIC | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business
Understand music’s importance in today’s world through theory, composition, performance, and history. Combine your passion for music with other interests by taking courses that address the vital intersection of music and technology, film, global culture, and politics.
Sample courses: Music Cognition, Introduction to Jazz, Soundtracks: Music in Film
Career possibilities: Teacher, performer, associate pastor of music, music store owner, recording studio owner

W - NANOTECHNOLOGY ENGINEERING | FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Combine ideas from chemistry, electronics, quantum physics, and biology with engineering principles to create new technologies at the nanometre scale. You’ll explore a new world of materials to make more efficient technologies, while gaining interdisciplinary knowledge that could take you into almost any industry: food processing, automotive, and even medicine.
Sample courses: Nanotoxicology, Societal and Environmental Impacts of Nanotechnology, Quantum Mechanics
Possible professional designation: Professional Engineer
Career possibilities: Research and development for pharmaceuticals, design of advanced materials for electronic devices, manufacturing of medical instruments

W - OPTOMETRY | SCHOOL OF OPTOMETRY (Doctor of Optometry) Regular only | Apply to a recommended Bachelor of Science program to meet requirements | Offered by Waterloo’s School of Optometry & Vision Science
Help preserve and enhance vision as an optometrist. After 3 years in a Bachelor of Science program, you can apply to Canada’s only English-language Doctor of Optometry program. Learn about ocular health and disease, optics, and vision, while applying your knowledge in clinical settings.
Sample courses: Optometry Clinics, Practice Management, Physiology of the Eye
Career possibilities: Registered optometrist; work in private practice, academia, or industry

PEACE AND CONFLICT STUDIES | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business
Develop diverse approaches to understanding conflict and promoting peace through Canada’s first peace studies program. Discover how to transform conflict’s violent potential into a creative force for positive change. Gain experience through an internship locally or abroad.
Sample courses: Human Rights, Peace, and Business; Conflict Resolution, Restorative Justice; Gender in War and Peace
Career possibilities: Community development officer, international development specialist, social services worker, policy advisor, mediation consultant, lawyer

W - PHARMACY | SCHOOL OF PHARMACY (Doctor of Pharmacy) Co-op only | Apply to a recommended Bachelor of Science program to meet requirements | Offered by Waterloo’s School of Pharmacy
Train to be a pharmacist through classwork and clinical rotations. After 2 years in a science program, you can apply to Canada’s newest and only co-op Pharmacy program, enhancing your learning on paid work terms and accumulating sought-after skills in community practice, hospitals, or family health teams.
Sample courses: Integrated Patient Focused Care, Professional Practice, Clinical Rotation: Primary Care
Career possibilities: Registered pharmacist; work in community practice, hospitals, or family health teams

PHILOSOPHY | FACULTY OF ARTS (M, Bachelor of Arts) Co-op available if you enroll in Honours Arts and Business
Understand music’s importance in today’s world through theory, composition, performance, and history. Combine your passion for music with other interests by taking courses that address the vital intersection of music and technology, film, global culture, and politics.
Sample courses: Music Cognition, Introduction to Jazz, Soundtracks: Music in Film
Career possibilities: Teacher, performer, associate pastor of music, music store owner, recording studio owner

PHYSICS | FACULTY OF SCIENCE (M, Bachelor of Science)
An OUAC entry program leading to the following majors (M) that begin in your first year: Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medical Chemistry, Physics, or Physics and Astronomy. Refer to your specific major for details.

PHYSICS | FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available | Also available as a minor | Apply to Physical Sciences on your OUAC application
Physics is about understanding how the universe works: from quantum particles, quantum computing, and exotic states of matter to Einstein’s curved spacetime and black holes. In one of Canada’s largest and most comprehensive physics programs, prepare for graduate studies or a wide range of careers requiring advanced problem-solving skills.
Sample courses: Scientific Measurement and Control, Classical Mechanics and Special Relativity; Introduction to Particle Physics
Career possibilities: Physicist, research and development scientist, physics teacher
PHYSICS AND ASTRONOMY | FACULTY OF SCIENCE (M, Bachelor of Science)  
Co-op available  Apply to Physical Sciences on your OUAC application  
From black holes to the Big Bang, astronomers study the most fascinating phenomena in the universe. Learn from professors who are using satellites and telescopes to explore space. Prepare for careers in astrophysics and space science or for graduate studies in astronomy or physics.  
Sample courses: Introduction to the Universe, Computational Physics, Cosmology  
Career possibilities: Astronomer, aerospace scientist, remote sensing scientist

PLANNING | FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies)  
Co-op only  
Tackle the environmental and social challenges facing our cities and rural areas. You’ll gain skills in effective transit planning and sustainable planning practices and study topics such as economics, law, design, and health.  
Sample courses: Social Concepts in Planning, Transportation Planning and Analysis, Urban Planning Design and the Environment  
Possible professional designation: Accredited by the Canadian Institute of Planning  
Career possibilities: Environmental planner, land use planner, urban designer, transit planner

POLITICAL SCIENCE | FACULTY OF ARTS (M, Bachelor of Arts)  
Co-op available if you enroll in Honours Arts or Honours Arts and Business  
Explore political power, global politics and governance, citizens and their relationship to governments, and political theory. Your newfound knowledge of politics and its many systems and cultures will make a difference to employers looking for critical thinkers and creative problem solvers.  
Sample courses: Globalization, International Business, and Development, Politics and Business, Global Environmental Governance  
Specializations: Politics and Business, Global Governance, Public Policy and Administration, International Relations  
Career possibilities: Civil servant, director of global programs, project manager, senior consultant

PSYCHOLOGY | FACULTY OF ARTS (M, Bachelor of Science)  
Co-op available if you enroll in Honours Arts or Honours Arts and Business  
Also available as a minor  
Apply to Life Sciences on your OUAC application  
Also available as a Bachelor of Arts in the Faculty of Arts  
Explore the mind in one of North America’s top psychology departments. Study a range of disciplines – neuroscience, cognition, clinical, developmental, and social. A BSc in psychology will prepare you for further training in medicine, speech pathology, or other health-related fields.  
Sample courses: Psychopathology, Genetics, Developmental Psychology  
Career possibilities: Neuropsychologist, child psychologist, psychiatrist

PUBLIC HEALTH | FACULTY OF APPLIED HEALTH SCIENCES (E, Bachelor of Public Health)  
Co-op available  
Learn about the many determinants, biological and otherwise, that influence the health of individuals and groups and how to influence these factors to improve the health and well-being of others.  
Sample courses: Social Determinants of Health, Global Health, Community Learning Project  
Specializations: Gerontology, Health Informatics, Health Research  
Career possibilities: Community relations officer, public health planner, policy developer

PURE MATHEMATICS | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics)  
Co-op available  
Also available as a minor  
Study the power, elegance, “how,” and “why” of math. Specialize in finance or mathematics teaching.  
Sample courses: Fields and Galois Theory, Complex Analysis, Differential Geometry  
Career possibilities: Data scientist, operations analyst, lecturer

RECREATION AND LEISURE STUDIES | FACULTY OF APPLIED HEALTH SCIENCES (E, M, Bachelor of Arts)  
Co-op available  
Explore leisure and its relationship to individual and community well-being. Learn how to plan, deliver, and manage recreation services that facilitate meaningful engagement. Choose from 4 majors (M): Recreation and Leisure Studies, Recreation and Sport Business, Therapeutic Recreation, and Tourism Development.  
Sample courses: Program Management and Evaluation, Play, Creativity, and Child Development, Diversity and Leisure  
Career possibilities: Manager of community services, program and support services manager, recreation manager

RECREATION AND SPORT BUSINESS | FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts)  
Co-op available  
Combine your expertise in recreation and sport with transferable business skills in marketing, human resources, communications, management, and finance. Prepare for a career in commercial, not-for-profit, or public recreation and sport.  
Sample courses: Principles of High Performance Organizations in Recreation and Sport, Leisure and Community, Mobilizing Resources for Recreation and Sport Delivery  
Career possibilities: Community events manager, marketing manager, sport programming manager

RELIGIOUS STUDIES | FACULTY OF ARTS (M, Bachelor of Arts)  
Co-op available if you enroll in Honours Arts and Business  
Explore the religious dimensions of human experience to gain an understanding of yourself and others. Discover the world’s great religions through courses in Western and Eastern religions, the history of Christianity, Biblical studies, theology, ethics, sociology, and religion and the arts.  
Sample courses: Sacred Spaces and Human Geographies, Religion in Popular Film, Love and Friendship  
Career possibilities: Clinical therapist, interfaith chaplain, international development agency director

W – SCIENCE AND AVIATION | FACULTY OF SCIENCE (E, Bachelor of Science)  
Earn a Bachelor of Science while completing flight training and receive your Commercial Pilot Licence. Focus on physics or earth sciences, or customize your studies to include courses from a range of scientific disciplines.  
Possible professional designation: Students graduate with a Commercial Pilot Licence  
Career possibilities: King Air 350 co-pilot, pilot, flight training instructor

W – SCIENCE AND BUSINESS | FACULTY OF SCIENCE (E, Bachelor of Science)  
Co-op available  
This one-of-a-kind program in Canada provides a strong foundation in science, along with courses in accounting, economics, marketing, computing, statistics, and human resources. Become a scientist with solid business and presentation skills or a business professional who speaks the language of science.  
Sample courses: Principles of Marketing and Consumer Economics, Technology Development Workshop, Principles of Molecular Biology  
Career possibilities: Medical information specialist, biotech accounts manager, pharmaceutical chemist

SEXUALITY, MARRIAGE, AND FAMILY STUDIES | FACULTY OF ARTS (M, Bachelor of Arts)  
Co-op available if you enroll in Honours Arts and Business  
Consider the many ways in which sexuality and relationships affect culture and societal attitudes. Choose from courses in psychology, history, sociology, English, and women’s studies, and learn to promote social justice as a responsible citizen.  
Sample courses: Human Sexuality in Relationships, Practicum: Professional Ethics, Communication and Counselling Skills  
Career possibilities: Sexual health educator, youth support worker, social worker, couple and family therapist
The programme focuses on gaining knowledge and skills in social issues at various levels. Classroom learning is essential for affecting social issues at local, national, and global levels. Co-operative education is available if you enroll in Honours Arts and Business.


Career possibilities: Child protection worker, community mental health consultant, planning analyst, program and development co-ordinator, community support specialist.

**SOCIAL WORK | RENISON UNIVERSITY COLLEGE (Bachelor of Social Work)**

This program is only available to students holding an undergraduate degree. Split your time between coursework and hands-on experience to prepare for a career in social work. Consider enrolling in Social Development Studies to begin your journey towards a BSW.

Sample courses: Diversity and Empowerment, Mental Health and Addiction Issues, Social Work with Older Adults.

Career possibilities: Social worker, mental health clinician, counsellor/therapist.

**SOCIOLOGY | FACULTY OF ARTS (M, Bachelor of Arts)**

Study how societies work and how people organize themselves. This program allows you to examine age, class, ethnicity, religion, gender, health, social inequality, education, work, and politics. Walk away with the ability to conduct research, interpret social patterns and data, and critically evaluate different aspects of sociology.

Sample courses: Terrorism, Games and Gamers, Organized Crime.

Career possibilities: Youth justice advocate, justice policy analyst, research associate, ESL teacher.

**SOFTWARE ENGINEERING | FACULTY OF ENGINEERING | FACULTY OF MATHEMATICS (E, Bachelor of Software in Engineering)**

Co-op only

Create and maintain complex software systems using principles from mathematics, engineering, and computer science. You'll analyse software architecture, apply algorithms, and design human-computer interfaces. By the end of your degree, you'll have the technical skills you need to lead major projects. This program is jointly offered by the Faculty of Engineering and the Faculty of Mathematics.

Sample courses: Programming Principles, Logic and Computation, Foundations of Sequential Programs.

Possible professional designations: Professional Engineer, Canadian Information Technology Professional.

Career possibilities: Product design of operating systems, development of security systems, analysis and maintenance of web applications.

**SPANISH | FACULTY OF ARTS (M, Bachelor of Arts)**

Co-op available if you enrol in Honours Arts and Business.

Explore the richness of Hispanic literature and culture while learning one of the world's most popular languages. You'll also get a chance to study in Spain or in a Latin American country.

Sample courses: Poetry of the Tango, Theory and Practice of Translation, Hispanic World through Literature and Art.

Career possibilities: Librarian, marketing manager, senior manager, translator.

**SPEECH COMMUNICATION | FACULTY OF ARTS (M, Bachelor of Arts)**

Co-op available if you enrol in Honours Arts and Business.

Discover how communication creates meaning in our world by encouraging creative, collaborative, and critical engagement. Prepare for a career in public relations, human relations, teaching, broadcasting, or marketing.

Sample courses: Persuasion, Crisis Communication, Digital Presentations.

Career possibilities: Strategic planning officer, legal assistant, communications officer, digital media coordinator.

**STATISTICS | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics)**

Co-op available also available as a minor.

Learn about research methods and statistical applications in business, medicine, epidemiology, industrial design, pattern recognition, and artificial intelligence.


Career possibilities: Biostatistician, business intelligence specialist, software quality analyst.

**STATISTICS FOR HEALTH | FACULTY OF MATHEMATICS (M, Bachelor of Mathematics)**

Co-op available.

Develop strong quantitative and data-based decision-making skills needed to be part of an effective health care research team. This program emphasizes the statistical elements of research in clinical, public, and population health.


Career possibilities: Medical researcher, data analyst, project manager.

**THEATRE AND PERFORMANCE | FACULTY OF ARTS (M, Bachelor of Arts)**

Co-op available if you enrol in Honours Arts and Business.

Write theatre reviews, study stage direction, and think about reinventing theatre for today. Focus your studies in acting, directing, technical, or theory in one of the most performance-intensive drama programs available in Canada.

Sample courses: Stage Management, Approaches to Directing, Collaborative Creation.

Career possibilities: Set designer, actor, floor director, stage manager, general manager.

**THEORETICAL REASONING AND COGNITIVE SCIENCE | FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts)**

Enhance the physical, mental, and social health and well-being of individuals and communities through research, treatment, education, activism, and recreation and leisure services. Learn to create meaningful experiences with participants in clinical, residential, and community settings.

Sample courses: Foundations of Therapeutic Recreation Practice, Leisure and Well-being, Therapeutic Recreation; Physical Disabilities.

Possible professional designations: Eligible to apply for registration with Therapeutic Recreation Ontario, and certification with the National Therapeutic Recreation Certification (U.S.).

Career possibilities: Recreation therapist, elder life specialist, occupational therapist.

**TOURISM DEVELOPMENT | FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts)**

Co-op available.

Gain the knowledge, skills, and values to use tourism to enhance well-being and improve communities. Prepare for a career in one of the world's largest industries by learning how to plan, manage, and fund tourism experiences and events.

Sample courses: Outdoor Recreation Resources Management, Ecotourism and Communities (field course), Event Management.

Career possibilities: Festival and events co-ordinator, policy researcher, director of parks and recreation.

**WOMEN'S STUDIES | FACULTY OF ARTS (M, Bachelor of Arts)**

Co-op available if you enrol in Honours Arts and Business.

Understand the role gender and sex play in all aspects of life. Explore issues across time and culture, including the struggles for women's rights, the portrayal of women in popular culture, and the contributions women make in technology, health, and the global economy.

Sample courses: Gender Issues, Women and Entrepreneurship, Women Across Cultures.

Career possibilities: Counselling co-ordinator, social worker.
### International Admission Requirements 2017

<table>
<thead>
<tr>
<th>Program (Apply To)/System of Study</th>
<th>Indian System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum system requirements – please see program-specific requirements below</td>
<td>First or Second Division standing in one of the following: (1) All India Senior School Certificate awarded by CBSE or (2) Indian School Certificate awarded by CISCE or (3) other pre-university certificate awarded after 12 years of academic studies. Final grades will be evaluated based on board results. NOTE: Std XII = Standard XII; min = minimum final grade; overall = overall minimum final average.</td>
</tr>
</tbody>
</table>

### Applied Health Sciences

- **Health Studies** Regular and co-op
  - Std XII Chemistry and Std XII Biology, min 70% in each. Overall 80% Std XII.

- **Kinesiology** Regular and co-op
  - Std XII Mathematics and Std XII Chemistry, min 70% in each. One of Std XII Physics or Std XII Biology, min 70%. Overall 80% Std XII.

- **Public Health** Regular and co-op
  - Std XII English min 75%. Overall 80% Std XII.

- **Recreation and Leisure Studies** Regular and co-op
  - Std XII English, min 70%. Overall 80% Std XII.

### Arts

- **Accounting and Financial Management** Co-op only
  - Std XII English, min 75%. Std XII Mathematics, min 75%. Overall 85% Std XII. Admission Information Form (AIF).

- **Global Business and Digital Arts** Regular only
  - Std XII English, min 75%. Overall 80% Std XII.

- **Honours Arts (Waterloo, Renison, St. Jerome’s), Independent Studies** (Waterloo), Social Development Studies (Renison) Regular only
  - Std XII English, min 70%. Overall 80% Std XII.

- **Honours Arts and Business** Regular and co-op
  - Std XII English, min 70%. Overall 80% Std XII.

### Computing and Financial Management

- **Computing and Financial Management** Co-op only
  - Std XII Mathematics and one other Std XII academic course, min 85% in each. Std XII English, min 75%. All Std XII courses: min 80%. Admission Information Form (AIF).

### Engineering

- **Architecture** Co-op only
  - Std XII Mathematics; Std XII Physics, min 70%; Std XII English, min 75%; and two other Std XII courses. Overall 80% Std XII. Admission Information Form (AIF).

- **Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design** Co-op only
  - Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min 70% in each. Overall 85% in the 5 required courses. Admission Information Form (AIF). Individual selection may vary.

### Software Engineering

- **Software Engineering** Co-op only
  - Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min 70% in each. Overall 85% in the 5 required courses. Admission Information Form (AIF). Individual selection may vary.

### Environment

- **Environment and Business** Co-op only
  - Std XII English, min 70%. Overall 80% Std XII.

- **Environment, Resources and Sustainability; Geography and Environmental Management** Regular and co-op
  - Std XII English, min 70%. Overall 80% Std XII.

- **Geography and Aviation** Regular only
  - Std XII Mathematics and Std XII English, min 70% in each. Strongly recommended: one of Std XII Physical or Environmental Science. Overall 80% Std XII.

- **Geomatics** Regular and co-op
  - Std XII Mathematics and Std XII English, min 70% in each. Overall 80% Std XII.

- **International Development** Regular only
  - Std XII English, min 70%. Overall 80% Std XII.

- **Knowledge Integration** Regular only
  - Std XII Mathematics, Std XII English, and one Std XII Science course, min 75% in each. Overall 80% Std XII.

- **Planning** Co-op only
  - Std XII English, min 75%. Overall 80% Std XII.

### Mathematics

- **Business Administration (Laurier) and Computer Science (Waterloo) – Double Degrees** Co-op only
  - Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. Admission Information Form (AIF).

- **Computer Science** Regular and co-op
  - Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. Admission Information Form (AIF).

- **Mathematics, Mathematics/Business Administration** Regular and co-op. **Mathematics/Financial Analysis and Risk Management** Regular and co-op
  - Std XII Mathematics, min 85%. Std XII English. One other Std XII course, min 85%. All Std XII courses: min 80%. Admission Information Form (AIF).

- **Mathematics/Chartered Professional Accountancy** Co-op only
  - Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. Admission Information Form (AIF).

### Science

- **Biotechnology/Chartered Professional Accountancy**, **Biotechnology/Economics** Co-op only. **Environmental Science, Life Sciences, Physical Sciences, Science and Business** Regular and co-op. **Honours Science, Science and Aviation** Regular only
  - Std XII Mathematics, min 70%. Two of Std XII Biology, Std XII Chemistry, or Std XII Physics. One other Std XII course. Overall 80% including required courses; except Biotechnology/Chartered Professional Accountancy: overall 94%, Biotechnology/Economics: overall 85%.
Minimum Admission Requirement: Completed high school diploma or equivalent university preparation for your program. Minimum admission requirements are subject to change. For some programs the demand for places by qualified applicants exceeds the number of places available. For additional 2017 admissions information, visit uwewaterloo.ca/findoutmore/admissions.

<table>
<thead>
<tr>
<th>INTERNATIONAL BACCALAUREATE SYSTEM</th>
<th>AMERICAN SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Six total IB courses, at least 3 of which must be at the Higher Level. IB total scores exclude Diploma points. For programs listing HL or SL English A, the HL English B with a min 5 is acceptable. For programs listing HL or SL Mathematics, Math Studies will not be accepted. <strong>NOTE: HL = Higher Level; SL = Standard Level; min = minimum final grade; total = overall minimum grade total.</strong></td>
<td>High School Diploma with prerequisite courses completed at the AP level and/or Grade 12 senior academic level. <strong>NOTE:</strong> min = minimum final grade; average = minimum final overall Grade 12 average.</td>
</tr>
<tr>
<td><strong>HL Chemistry and either HL or SL Biology, min 4 in each. Total 28.</strong></td>
<td><strong>AP Chemistry and AP Biology, min 3 in each. Average 85%.</strong></td>
</tr>
<tr>
<td>Mathematics (HL recommended) and Chemistry (HL recommended), min 4 in each. One of HL or SL Physics or Biology, min 4. Total 28.</td>
<td>Honours Pre-Calculus or AP Calculus; Grade 12 (Senior Level) Chemistry; min 75% in each. One of Biology or Physics, min 75%, preferably at the AP level, min 3. Average 85%.</td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4. Total 28.</strong></td>
<td>Grade 12 English, min 80%. Average 85%.</td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4. Total 27.</strong></td>
<td>Grade 12 English, min 75%. Average 85%.</td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. HL Mathematics, min 5 (individual consideration for SL Mathematics, min 6); Total 28. Admission Information Form (AIF).</strong></td>
<td><strong>Grade 12 English, min 80%. AP Calculus and Algebra (Pre-Calculus), min 80% in each. Average 88%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 80%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 75%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 75%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL Mathematics, min 5 or SL Mathematics, min 6. HL or SL English A, min 4 or HL English B, min 5. Total 32. Admission Information Form (AIF).</strong></td>
<td><strong>AP Calculus exam, min 4. Algebra (Pre-Calculus). Grade 12 English, min 75%. Average 90%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td>Mathematics and Physics (HL recommended), min 5 in each. HL or SL English A, min 5. Three additional HL or SL courses, min 5 in each. Total 32. Admission Information Form (AIF).</td>
<td>AP Calculus, AP Physics (or 2 high school Physics courses when AP is unavailable), Algebra (Pre-Calculus), min 75% in each. Grade 12 English, min 80%, plus 2 additional Grade 12 courses. Average 85%. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>Mathematics and Physics (HL recommended), min 4 in each. Chemistry and English A, min 4 in each. One other HL or SL course, min 4. Total 32. Admission Information Form (AIF). Individual selection may vary; 6s and 7s recommended for competitive programs.</td>
<td>AP Calculus, AP Physics (or 2 high school Physics courses when AP is unavailable), Algebra (Pre-Calculus), Chemistry, Grade 12 English, and one other Grade 12 academic course, min 75% in each. Average 88% in the 6 required courses. SATs required. Admission Information Form (AIF). Individual selection may vary.</td>
</tr>
<tr>
<td>Mathematics and Physics (HL recommended), min 4 in each. Chemistry and English A, min 4 in each. One other HL or SL course, min 4. Total 32. Admission Information Form (AIF). Individual selection may vary; 6s and 7s recommended for competitive programs.</td>
<td>AP Calculus, AP Physics (or 2 high school Physics courses when AP is unavailable), Algebra (Pre-Calculus). Chemistry, Grade 12 English and one other Grade 12 academic course, min 75% in each. Average 88% in the 6 required courses. SATs required. Admission Information Form (AIF). Individual selection may vary.</td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 75%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 Mathematics and Grade 12 English, min 75% in each. Strongly recommended: one Grade 12 course in Physical or Environmental Science. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 75%. Grade 12 Mathematics, min 75%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 75%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics and Science, min 4 in each. HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 Mathematics, Grade 12 Science, and Grade 12 English, min 80% in each. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL English A, min 4; or HL English B, min 5. Total 27.</strong></td>
<td><strong>Grade 12 English, min 80%. Average 85%.</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 6. HL or SL English A. Total 32. Admission Information Form (AIF).</strong></td>
<td><strong>AP Calculus exam, min 4. Algebra (Pre-Calculus). Grade 12 English. Average 90%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 6. HL or SL English A. Total 32. Admission Information Form (AIF).</strong></td>
<td><strong>AP Calculus exam, min 4. Algebra (Pre-Calculus). Grade 12 English. Average 90%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td><strong>HL Mathematics, min 5 or SL Mathematics, min 6. HL or SL English A. Total 31. Admission Information Form (AIF).</strong></td>
<td><strong>AP Calculus exam, min 4. Algebra (Pre-Calculus). Grade 12 English. Average 90%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 6. HL or SL English A. Total 32. Admission Information Form (AIF).</strong></td>
<td><strong>AP Calculus exam, min 4. Algebra (Pre-Calculus). Grade 12 English. Average 90%. Admission Information Form (AIF).</strong></td>
</tr>
<tr>
<td><strong>HL or SL Mathematics, min 4; or HL or SL English A, min 4. Two of Biology, Chemistry, or Physics (at least one HL), min 4 in each. Total 27 for all; except Biotechnology/ Chartered Professional Accountancy; total 33; Biotechnology/Economics: total 29.</strong></td>
<td><strong>AP Calculus (preferred) or Grade 12 Calculus, min 80%. Grade 12 English, min 80%. Algebra (Pre-Calculus). Two of Biology, Chemistry, Physics, or Statistics, min 80% in each. One other Grade 12 academic or AP course. Average 85% including required courses; except Biotechnology/ Chartered Professional Accountancy: average 94%; Biotechnology/Economics: average 87%.</strong></td>
</tr>
</tbody>
</table>
### International Admission Requirements Continued

<table>
<thead>
<tr>
<th>Program (Apply To)/System of Study</th>
<th>British System</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimum system requirements – please see program-specific requirements below</td>
<td>General Certificate of Secondary Education or equivalent with passes in at least 5 unique subjects, 3 of which must be at the Advanced Level. Individual consideration may be given for 2 A-levels. General paper is not accepted for the English course requirements. <strong>NOTE:</strong> min = minimum final grade.</td>
</tr>
<tr>
<td><strong>Applied Health Sciences</strong></td>
<td></td>
</tr>
<tr>
<td>Health Studies Regular and co-op</td>
<td>A-level Chemistry and A-level Biology, min B in each. One additional A-level, min C.</td>
</tr>
<tr>
<td>Kinesiology Regular and co-op</td>
<td>A-level Mathematics, min C. A-level Chemistry, min B. One additional A-level, min B. One of Physics or Biology at the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Public Health Regular and co-op</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Recreation and Leisure Studies Regular and co-op</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td><strong>Arts</strong></td>
<td></td>
</tr>
<tr>
<td>Accounting and Financial Management* Co-op only</td>
<td>A-level Mathematics, min A and 2 other A-level courses, min B in each. English at either the GCSE, AS, or A-level, min B. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>Global Business and Digital Arts Regular only</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Honours Arts (Waterloo, Renison, St. Jerome’s), Independent Studies* (Waterloo), Social Development Studies (Renison) Regular only</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Honours Arts and Business Regular and co-op</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td><strong>Computing and Financial Management</strong></td>
<td></td>
</tr>
<tr>
<td>Computing and Financial Management Co-op only</td>
<td>A-level Mathematics and one other academic A-level course, min A in each. One other academic A-level, min B. English at either the GCSE, AS, or A-level, min B. Admission Information Form (AIF).</td>
</tr>
<tr>
<td><strong>Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>Architecture* Co-op only</td>
<td>A-level Mathematics and A-level Physics, min B in each. One additional A-level, min B. English at either the GCSE, AS, or A-level, min B. One additional course at the GCSE, AS, or A-level, min B. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design Co-op only</td>
<td>A-level Mathematics and A-level Physics, min A in each. One additional A-level, min B. Chemistry (GCSE-level required, A-level recommended), min B. GCSE-level English, min B. Admission Information Form (AIF). Individual selection may vary; As and A’s recommended for competitive programs.</td>
</tr>
<tr>
<td><strong>Software Engineering</strong></td>
<td></td>
</tr>
<tr>
<td>Software Engineering* Co-op only</td>
<td>A-level Mathematics and A-level Physics, min A in each. One additional A-level, min B. Chemistry (GCSE-level required, A-level recommended), min B. GCSE-level English, min B. Admission Information Form (AIF). Individual selection may vary; As and A’s recommended for competitive programs.</td>
</tr>
<tr>
<td><strong>Environment</strong></td>
<td></td>
</tr>
<tr>
<td>Environment and Business Co-op only</td>
<td>Three A-level courses, min B in each. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Environment, Resources and Sustainability; Geography and Environmental Management Regular and co-op</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Geography and Aviation* Regular only</td>
<td>English at either the GCSE, AS, or A-level, min B. A-level Mathematics, min B. Two other A-level courses, min B and C. Strongly recommended: one A-level course in Physical or Environmental Science.</td>
</tr>
<tr>
<td>Geomatics Regular and co-op</td>
<td>A-level Mathematics, min B. Two other A-level courses, min one B and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>International Development Regular only</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Knowledge Integration Regular only</td>
<td>A-level Mathematics and one A-level Science course, min B in each. One additional A-level course, min C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Planning Co-op only</td>
<td>Three A-level courses, min B in each. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
</tbody>
</table>
**ADMISSION REQUIREMENTS**

**CARIBBEAN ADVANCED PROFICIENCY EXAMINATION**

<table>
<thead>
<tr>
<th>Program</th>
<th>minimum requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Engineering*</td>
<td>A-level Mathematics and one other academic A-level course, min A in each. One other academic course, min C in each.</td>
</tr>
<tr>
<td>Computing and Financial Management</td>
<td>Regular only A-level Mathematics and one A-level Science course, min B in each. One additional A-level course, min B in each.</td>
</tr>
<tr>
<td>Knowledge Integration</td>
<td>Regular only A-level Mathematics and one A-level Science course, min B in each. Two additional A-level courses, min B in each.</td>
</tr>
<tr>
<td>Environmental Science</td>
<td>Regular only A-level Mathematics and one A-level Science course, min B in each. One additional A-level course, min B in each.</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>Regular only A-level Mathematics, min A and 2 other A-level courses, min B in each. English at either the GCSE, AS, or A-level, min B. Two other A-level courses, min B in each.</td>
</tr>
<tr>
<td>Accounting and Financial Management*</td>
<td>Co-op only A-level Mathematics and one other academic A-level course, min A in each. One other academic course, min C in each.</td>
</tr>
<tr>
<td>Systems Design</td>
<td>Regular only A-level Mathematics and one A-level Science course, min B in each. One additional A-level course, min B in each.</td>
</tr>
<tr>
<td>Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Engineering</td>
<td>Regular and co-op A-level Chemistry and A-level Biology, min B in each. One additional A-level, min C.</td>
</tr>
<tr>
<td>Engineering Honours Arts and Business (Waterloo), Social Development Studies (Renison)</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>International Development</td>
<td>Three A-level courses, min 2 Bs and one C. English at either the GCSE, AS, or A-level, min B. One additional course at the GCSE, AS, or A-level, min B.</td>
</tr>
</tbody>
</table>

**CHINESE SYSTEM**

<table>
<thead>
<tr>
<th>Program</th>
<th>minimum requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environmental Science</td>
<td>Chinese High School Diploma. Completion of a minimum of 5 Senior 3 academic courses. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>Senior 3 Chemistry and Senior 3 Biology, min 75% in each. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Accounting and Financial Management*</td>
<td>Senior 3 Chemistry and Senior 3 Mathematics with evidence of Calculus and Algebra, min 75% in each. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Systems Design</td>
<td>Senior 3 English, min 75%. Overall 80% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Engineering</td>
<td>Senior 3 English, min 75%. Overall 80% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Engineering Honours Arts and Business (Waterloo), Social Development Studies (Renison)</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English, min 75%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>International Development</td>
<td>Senior 3 Mathematics with evidence of Calculus and Algebra, min 75%. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Engineering Environmental Science.</td>
<td>Senior 3 Mathematics with evidence of Calculus and Algebra, min 75%. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Accounting and Financial Management*</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Systems Design</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Engineering</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Engineering Honours Arts and Business (Waterloo), Social Development Studies (Renison)</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>International Development</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
<tr>
<td>Engineering Environmental Science.</td>
<td>Senior 3 Mathematics, min 75%. Senior 3 English, min 80%. Overall 85% in Senior 3. One other Unit 1 or Unit 2 academic course, min 3.</td>
</tr>
</tbody>
</table>

**NOTE:** min = minimum final grade; overall = minimum overall final average.
**international admission requirements continued**

<table>
<thead>
<tr>
<th>PROGRAM (APPLY TO)/SYSTEM OF STUDY</th>
<th>BRITISH SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Minimum system requirements</strong> – please see program-specific requirements below</td>
<td>General Certificate of Secondary Education or equivalent with passes in at least 5 unique subjects, 3 of which must be at the Advanced Level. Individual consideration may be given for 2 A-levels. General paper is not accepted for the English course requirements. <strong>NOTE:</strong> min = minimum final grade.</td>
</tr>
<tr>
<td><strong>MATHEMATICS</strong></td>
<td></td>
</tr>
<tr>
<td>Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) – Double Degrees Co-op only</td>
<td>A-level Mathematics min A. Two other academic A-level courses, min A in each. English at either the GCSE, AS, or A-level. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>Computer Science Regular and co-op</td>
<td>A-level Mathematics min A. Two other academic A-level courses, min A in each. English at either the GCSE, AS, or A-level. Admission Information Form (AIF).</td>
</tr>
<tr>
<td>Mathematics, Mathematics/Business Administration Regular and co-op, Mathematics/Financial Analysis and Risk Management Mathematics/Chartered Professional Accountancy* Co-op only</td>
<td>A-level Mathematics min A. Two other academic A-level courses, min A in each. English at either the GCSE, AS, or A-level. Admission Information Form (AIF).</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
<td></td>
</tr>
<tr>
<td>Biotechnology/Chartered Professional Accountancy*, Biotechnology/ Economics Co-op only; Environmental Science, Life Sciences, Physical Sciences, Science and Business Regular and co-op; Honours Science, Science and Aviation* Regular only</td>
<td>A-level Mathematics, min B. Two of Biology, Chemistry or Physics (one must be A-level), min B. One other academic A-level, min B. GCSE-level English, min B.</td>
</tr>
</tbody>
</table>

*additional admission requirements and notes

Admission Information Form (AIF) must be completed for most programs. Details will be sent to you once you apply.

» **Accounting and Financial Management** – Applicants will be required to complete an Accounting and Financial Management Admissions Assessment (AFMAA). Details will be emailed to you once you’ve applied. Co-op jobs for international students on a Canadian study permit may be subject to employer restrictions.

» **Architecture** – Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.

» **Biotechnology/Chartered Professional Accountancy and Mathematics/Chartered Professional Accountancy** – Open only to Canadian citizens and Permanent Residents.

» **Geography and Aviation or Science and Aviation** – Qualified applicants will be asked to complete a screening process by the Waterloo-Wellington Flight Centre that includes a Program Briefing Session and Transport Canada Category 1 Aviation Medical Certification.

» **Software Engineering** – Experience in developing well-structured, modular programs is required. Applicants will be asked to explain programming experience on the Admission Information Form.

**application tips**

» Applicants from high schools outside of North America and not following the American, British, Caribbean Advanced Proficiency Examination, Chinese, Indian, or International Baccalaureate system of study should attach course descriptions for senior-level mathematics along with their transcripts.

» Repeated courses may be taken into consideration, depending on the program.

» Engineering, Mathematics, and Science programs may consider GCSE-level English as a Second Language, provided that you also submit a satisfactory English language test score.

» Accounting, Applied Health Sciences, Architecture, Arts, Environment, and Financial Management will not accept GCSE-level English as a Second Language to satisfy the academic English course requirement.
choose your focus

Apply to the bolded program to study one of the majors listed.

* Regular-only; ** Co-op-only.

**NOTE:** Majors listed without an asterisk have both co-op and regular options.

**HONOURS ARTS**
- Anthropology*
- Classical Studies*
- Economics; English; Fine Arts*
- French*
- German*
- History; Legal Studies*
- Medieval Studies*
- Music*
- Peace and Conflict Studies*
- Philosophy*
- Political Science; Psychology; Religious Studies*
- Sexuality, Marriage, and Family Studies*
- Social Development Studies*
- Sociology; Spanish*
- Speech Communication*
- Theatre and Performance*
- Women’s Studies*

**HONOURS ARTS AND BUSINESS**
- Anthropology; Classical Studies; Economics; English; Fine Arts; French; German; History; Legal Studies; Medieval Studies; Music; Peace and Conflict Studies; Philosophy; Political Science; Psychology; Religious Studies; Sexuality, Marriage, and Family Studies; Social Development Studies; Sociology; Spanish; Speech Communication; Theatre and Performance; Women’s Studies

**COMPUTER SCIENCE**
- Computer Science (BCS or BMath), Teaching Option (BMath)**

**ENVIRONMENTAL SCIENCE**
- Ecology, Geoscience

**LIFE SCIENCES**
- Biochemistry, Biology, Biomedical Sciences*
- Life Physics, Psychology

**MATHEMATICS**

**MATHEMATICS/BUSINESS ADMINISTRATION**
- Information Technology Management, Mathematical Economics

**PHYSICAL SCIENCES**
- Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medicinal Chemistry***, Physics, Physics and Astronomy

**RECREATION AND LEISURE STUDIES**
- Recreation and Leisure Studies, Recreation and Sport Business, Therapeutic Recreation, Tourism Development

**SCIENCE AND AVIATION**
- Earth Sciences, Physics, Non-Specialized

**SCIENCE AND BUSINESS**
- Biochemistry, Biology, Biotechnology, Chemistry, Earth Sciences, Environmental Sciences, Physics, Non-Specialized
finance your education

Did you know you’re automatically considered for most Waterloo entrance scholarships? To find more ways to help pay for your studies, visit: uwaterloo.ca/findoutmore/financing.

85% of first-year students received entrance scholarships in 2015

Other expenses to consider
(estimates for 8 months)

books and fees $4,000+

residence $8,000+

personal expenses $3,000+

based on lifestyle

First-year tuition (September-April)
Amounts shown are in Canadian dollars (CAD) and are estimated averages based on 2016 figures. Exact amounts for 2017-18 will be available in July 2017.

<table>
<thead>
<tr>
<th>PROGRAM/FACULTY</th>
<th>TUITION (CAD)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Financial Management¹, Applied Health Sciences, Arts, Computing and Financial Management¹, Environment</td>
<td>$24,830</td>
</tr>
<tr>
<td>Architecture, Engineering, Software Engineering</td>
<td>$35,754-$36,810</td>
</tr>
<tr>
<td>Mathematics, Science</td>
<td>$25,962-$26,882</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>$27,728</td>
</tr>
</tbody>
</table>

NOTE: ¹ For accounting and finance programs, as with most university professional programs, tuition is significantly higher in your upper years.
how to apply

1 Apply to Waterloo through the Ontario Universities’ Application Centre at www.ouac.on.ca.

Application and document deadlines

<table>
<thead>
<tr>
<th>FALL TERM</th>
<th>DATE APPLICATION INFORMATION AND FEES MUST REACH OUAC</th>
<th>DATE DOCUMENTS MUST REACH WATERLOO</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2017 – All programs*</td>
<td>March 31, 2017</td>
<td>April 7, 2017</td>
</tr>
<tr>
<td>*EXCEPTIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Architecture</td>
<td>February 3, 2017</td>
<td>March 1, 2017</td>
</tr>
<tr>
<td>Accounting and Financial Management</td>
<td>February 3, 2017</td>
<td>March 1, 2017</td>
</tr>
<tr>
<td>Engineering, Software Engineering</td>
<td>March 1, 2017</td>
<td>March 31, 2017</td>
</tr>
<tr>
<td>Conditional Admission to Pharmacy</td>
<td>January 16, 2017</td>
<td>March 6, 2017</td>
</tr>
</tbody>
</table>

2 Watch for our email with your Waterloo ID number and details about your next steps.

3 Send us your academic transcripts. Other supporting documents from your high school may be required (e.g., proof of English language instruction).

4 Complete an Admissions Information Form. We’ll send you a video once you apply showing you how to fill this out.

English language test scores

» You must meet or exceed the minimum scores required for one of the options listed below if
  - your first language is not English and
  - you have not studied in an English-language school system for the most recent 4 years immediately before the beginning of your studies at Waterloo

Details about conditions, exemptions, and alternatives: uwaterloo.ca/findoutmore/elr.

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>OPTION 2</th>
<th>OPTION 3</th>
<th>OPTION 4</th>
<th>OPTION 5</th>
<th>OPTION 6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internet-based TOEFL</td>
<td>IELTS</td>
<td>MELAB</td>
<td>CAEL</td>
<td>PTE (Academic)</td>
<td>English for Academic Success</td>
</tr>
<tr>
<td>90, writing: 25, speaking: 25</td>
<td>6.5 overall 6.5 writing 6.5 speaking 6.0 reading 6.0 listening</td>
<td>85, 80 per section, for co-op programs: 3 speaking</td>
<td>70 overall, 60 per band, 70 writing, 70 speaking</td>
<td>63 overall, 65 writing, 65 speaking</td>
<td>75% overall in 400 level, 75% academic, 75% oral, 75% writing</td>
</tr>
</tbody>
</table>

NOTE: Students achieving an overall IELTS score of 7.0 and no band score below 6.0 may be given individual consideration for admission to full-time undergraduate studies.

Thinking about studying at Waterloo but worried about your English language test scores?
Waterloo has 2 different programs that can help you improve.

» Math/English Language for Academic Studies (ELAS)
» All other faculties – Bridge to Academic Success in English (BASE)

Transfer credits
For programs in the faculties of Applied Health Sciences, Arts, Environment, Mathematics, and Science and in the School of Architecture, transfer credits will be considered for Advanced Placement (AP) and International Baccalaureate (IB) courses.

Not familiar with our Admission Information Form (AIF)?
When making admissions decisions, we consider other factors in addition to grades. You can use the AIF to

» tell us more about yourself and your extra-curricular activities
» explain any special circumstances that may have affected your grades and/or which you would like to be taken into consideration during the admissions process
» brag a little
discover your waterloo

waterloo satellite campuses

» School of Architecture, Cambridge
architecture@uwaterloo.ca

» School of Pharmacy, Kitchener
pharmacy@uwaterloo.ca

» Stratford Campus
(Global Business and Digital Arts)
stratfordprograms@uwaterloo.ca

Use your phone
to find your way
around campus

uwaterloo.ca/map
or google.ca/maps
The Waterloo campus has everything you need – residences, lecture halls, laundromats, coffee shops, bookstores, fitness facilities, medical services, cafeterias, and more! Our campus was designed with you in mind – it’s safe, park-like, and pedestrian friendly.

Most places on campus are only a 5- to 15-minute walk or a 2- to 5-minute bike ride away

questions about programs

General application questions
myapplication@uwaterloo.ca

Accounting and Financial Management
afm@uwaterloo.ca

Computing and Financial Management
cfm@uwaterloo.ca

Faculty of Applied Health Sciences
ahsinfo@uwaterloo.ca

Faculty of Arts
arts@uwaterloo.ca

Faculty of Engineering
enginfo@uwaterloo.ca

Faculty of Environment
envinfo@uwaterloo.ca

Faculty of Mathematics
mathinfo@uwaterloo.ca

Faculty of Science
science@uwaterloo.ca

School of Computer Science
future-ugrad@cs.uwaterloo.ca

School of Optometry & Vision Science
opt-admissions@uwaterloo.ca

Conrad Grebel University College
infocguc@uwaterloo.ca

Renison University College
renison@uwaterloo.ca

St. Jerome’s University
sjuinfo@uwaterloo.ca

St. Paul’s University College
stpauls@uwaterloo.ca

Waterloo Residences

Student Services buildings
UNIVERSITY OF WATERLOO
200 University Avenue West
Waterloo, Ontario, Canada  N2L 3G1
+1-519-888-4567
uwaterloo.ca/findoutmore

COME FOR A VISIT
Fall Open House
November 5, 2016
March Break Open House
March 18, 2017
Campus and residence tours
uwaterloo.ca/findoutmore/visit-us

ORDER A BROCHURE
Choose from 21 program brochures
uwaterloo.ca/findoutmore/order