Life at an intersection.

Waterloo is a place of opportunity. It’s where you’ll leave behind what’s familiar and step into a world of possibilities. Who you are, what you want, where you’ll go, and how you can impact the world are yours to discover.

At Canada’s most innovative university, you’ll be encouraged to take risks and challenge the status quo, to pursue an idea and disrupt industries. Whether you launch your own company, write a best-selling book, or test drive a new career in co-op, we want you to go Beyond Ideas.

Where will you go from here?
Discover limitless potential.

For more than 60 years, we’ve been challenging conventions and turning heads. We took innovation beyond a buzzword and made it our identity.

We set the bar for co-op in Canada because we saw a need for experienced, university-educated graduates. We encourage dreamers and entrepreneurs because we believe that cultivating creativity is key to global progress. We value diversity and inclusivity because we know we’re better, brighter, and stronger together. Some people call that innovative, but that’s just who we are.

Be yourself, work hard, and reap the rewards. We’ll do the same.

uwaterloo.ca/future/rankings
ATIVE

for 28 consecutive years
(Maclean’s University Ranking)

#1 comprehensive research university in Canada (Research Infosource, 2019)

#2 best overall university in Canada (Maclean’s Reputational Survey of Universities 2020)

NOBEL Prize in Physics for 2018, awarded to professor Donna Strickland

#1 in Canada for producing venture-capitalist-backed entrepreneurs (PitchBook Universities Report, 2018-2019)

#1 among comprehensive universities for experiential learning (Maclean’s Ranking of Comprehensive Universities, 2020)

#1 in Canada for employer-student connections (QS Graduate Employability Rankings, 2020)

#1 comprehensive research university in Canada (Research Infosource, 2019)

33,322 undergraduate students: 48% women, 20% international students (Fall 2019)

#2 in Canada for employer-student connections (QS Graduate Employability Rankings, 2020)

120 Campus Wellness staff to support you

#2 in Canada for graduate employability (QS Graduate Employability Rankings, 2020)

32 varsity sports teams to cheer on

1 of 10 universities in the world to lead the UN Women’s HeForShe IMPACT 10x10x10 initiative to equip women for success and leadership in traditionally male-dominated fields

211 student clubs

93.6% student retention rate (Waterloo Performance Indicators)

“CREATOR-OWNED” intellectual property policy means your great ideas belong to you
CITY OF DREAMERS

Prepare to be charmed.

The city of Waterloo gives you the perks of a big city – transportation, culture, and nightlife – with the charm and familiarity of a small town. Plus, you and your friends are only a short bus ride to Toronto, Canada’s entertainment hub and home to some of our largest co-op employers.

STARTUP PARADISE

Waterloo is an entrepreneur’s playground. Everything you need to kick-start a new business is within a few minutes of campus. Even if you don’t see yourself as the next startup sensation, living in one of the world’s top startup hubs gives you the scoop on new trends and technologies and puts you at the centre of a vibrant job market.

A LITTLE BIT OF EVERYTHING

The region of Waterloo is made up of three cities, each with its own flavour and attractions. Use your student card to ride Grand River Transit and enjoy easy access to all the region has to offer, from 1,200+ festivals and events to the ever-growing restaurant and food truck scene. For a sneak peek of Waterloo life, check out #KWAwesome.

WHY STUDY IN CANADA

Canada offers a safe, welcoming environment to pursue your studies and explore your dreams. Our country is home to one of the world’s best educational systems, and we’re internationally celebrated for our commitment to peace, multiculturalism, and inclusivity. You can work on or off campus while you study, and you may be able to apply for a post-graduation work permit to gain more Canadian work experience once you graduate.
Uptown Waterloo, home to dozens of restaurants, shops, cafés, music venues, clubs, and more, is a 20-minute walk (or a quick bus ride!) from campus.

617,870 people call the Region of Waterloo home

TOP 15 startup ecosystems in the world (Startup Genome, 2019)

115 KM to Toronto. Home of the CN Tower, Toronto Raptors, and Drake. You know the one.
CO-OP

Experience is everything.

Forget everything you thought you knew about student internships. Our co-op program adds up to two years of paid work experience to your résumé. With access to North America’s largest selection of co-op jobs, you’ll be able to test drive exciting careers and build a world-class professional network.

UNLIMITED CHOICES

We’ve all heard that variety is the spice of life. And for Kylie, co-op delivered just that. She’s provided personalized care to individuals living with disabilities, planned social events for students, and managed the office for a startup.

Along the way, she’s discovered what she does and doesn’t like doing, the importance of professional communication and flexibility, and the impact of a great mentor.

KYLIE
HONOURS ARTS AND BUSINESS, CO-OP
FACULTY OF ARTS

21,800+ work terms in 2018-2019, an increase of 24% since 2014-2015

7,100+ co-op employers in more than 60 countries
HOW CO-OP WORKS
In co-op programs, you’ll typically alternate between four months as a full-time student and four months as a full-time, paid employee building relevant skills through our network of 7,100+ employers. Before each work term, you’ll update your résumé, choose which jobs to apply to, and interview with prospective employers in a competitive process. With the help of our career resources and student advisors located across Canada, you’ll be more than ready to take on your first co-op job.

Once on the job, you’ll learn to adapt to different workplaces, build your skills through our professional development courses, and develop a fresh appreciation for your classroom studies. As you progress through your work terms, your résumé, knowledge, and confidence will grow, preparing you for an exciting career.

EXPERIENCE PAYS OFF
Professional experience makes a difference to your job prospects and starting salary. Ninety-six per cent of co-op grads employed six months after graduation worked in positions related to skills they acquired at Waterloo, compared to 79 per cent of Ontario grads. Just two years after graduation, 82 per cent of our co-op grads were earning $50,000 (compared to only 45 per cent of Ontario grads).

ALTERNATE BETWEEN FOUR-MONTH STUDY AND PAID WORK TERMS
Your co-op schedule depends on your program. Here are three common study/work sequences.

<table>
<thead>
<tr>
<th>YEAR</th>
<th>TERM</th>
<th>EXAMPLE 1</th>
<th>EXAMPLE 2</th>
<th>EXAMPLE 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Fall</td>
<td>Study</td>
<td>Study</td>
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<td></td>
<td>Winter</td>
<td>Study</td>
<td>Work</td>
<td>Study</td>
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<tr>
<td></td>
<td>Spring</td>
<td>Off</td>
<td>Study</td>
<td>Work</td>
</tr>
<tr>
<td>2</td>
<td>Fall</td>
<td>Study</td>
<td>Work</td>
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<td>Winter</td>
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<td>Study</td>
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<td></td>
<td>Spring</td>
<td>Study</td>
<td>Work</td>
<td>Study</td>
</tr>
<tr>
<td>3</td>
<td>Fall</td>
<td>Work</td>
<td>Study</td>
<td>Work</td>
</tr>
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<td>Winter</td>
<td>Study</td>
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<td></td>
<td>Spring</td>
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<td>Study</td>
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<tr>
<td>4</td>
<td>Fall</td>
<td>Study</td>
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<td>Study</td>
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<td>Winter</td>
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<td>Spring</td>
<td>Work</td>
<td>Study</td>
<td>Study</td>
</tr>
<tr>
<td>5</td>
<td>Fall</td>
<td>Study</td>
<td>Study</td>
<td>Work</td>
</tr>
<tr>
<td></td>
<td>Winter</td>
<td>Study</td>
<td>Study</td>
<td>Study</td>
</tr>
</tbody>
</table>

Fall term: September to December
Winter term: January to April
Spring term: May to August

EXPERIENCE FOR EVERYONE
If you’re leaning toward a program without co-op or looking for even more ways to get hands-on experience, take advantage of programs that will help you build a standout résumé.

EDGE CERTIFICATE
Develop professional skills, explore career options, and learn how to market yourself in this certificate program offered exclusively to students not in co-op programs.

PROFESSIONAL DEVELOPMENT PROGRAM (WATPD)
Learn the skills that will help you land jobs – and quickly climb the corporate ladder – in our free professional development courses.

GLOBAL EXPERIENCE CERTIFICATE
Expand your world view and knowledge of global issues by earning a Global Experience Certificate.

EXCHANGE AND STUDY ABROAD
Satisfy your wanderlust and your degree requirements through 100+ exchange and study-abroad opportunities.

STUDENT LEADERSHIP PROGRAM
Explore and enhance your leadership abilities as you earn the Student Leadership Program certificate.

#1 among comprehensive universities for experiential learning (Maclean’s Ranking of Comprehensive Universities, 2020)

Students earned $8,400–$18,000+ per four-month co-op work term within Canada (2019)

uwaterloo.ca/future/co-op
CAREER SUCCESS

Write your own ticket.

No school can guarantee your success after graduation. But we come really close. While other university alumni try to break into the work world, you’ll be focused on your next opportunity.

RUPI KAUR (BA ’15)
Honours Arts and Business
New York Times best-selling author and illustrator

DIANA CHIU (BSc ’05, MBET ’06)
Science and Business
Senior manager, business development
DuckDuckGo

JONATHAN LAURENCIC (BA ’10)
Recreation and Business
Co-founder and director of operations
Elora Brewing Company

#1 in Canada for producing venture-capitalist-backed entrepreneurs (PitchBook Universities Report, 2018-2019)

TOP 25 in the world for graduate employability (QS Graduate Employability Rankings, 2020)

GRADUATE STUDIES
We surveyed your peers and found that almost half of incoming Waterloo students intend to pursue education beyond undergraduate studies. If that’s your plan, consider continuing your studies in familiar territory by applying to one of our 180+ research and professional graduate programs.

uwaterloo.ca/future/success
WHERE ARE THEY NOW?
More than 213,000 graduates have used their Waterloo education as a stepping stone to success. From startup founders to city planners, our alumni are workplace warriors. Two years after graduating, 96 per cent of our graduates are employed. And perks like complimentary career advising sessions and exclusive access to our alumni job board help with the next opportunity, too.

<table>
<thead>
<tr>
<th>Field</th>
<th>Example Jobs</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>EDUCATION</strong></td>
<td>Teacher recruitment manager, Teach For Canada, Math teacher, Columbia College</td>
</tr>
<tr>
<td><strong>GOVERNMENT AND PUBLIC ADMINISTRATION</strong></td>
<td>Program advisor; Ontario Ministry of Environment, Conservation and Parks, Geotechnical design, Shell Canada Ltd.</td>
</tr>
<tr>
<td><strong>TECHNOLOGY</strong></td>
<td>Technology solutions professional, Microsoft Canada Inc., Global supply manager, Apple Inc.</td>
</tr>
<tr>
<td><strong>FINANCE AND INSURANCE</strong></td>
<td>Treasurer and balance sheet analyst, TD Bank Group, User experience specialist, Manulife Financial</td>
</tr>
<tr>
<td><strong>COMMUNICATIONS AND NEW MEDIA</strong></td>
<td>Data scientist, Facebook, Software engineer, Twitter</td>
</tr>
<tr>
<td><strong>RETAIL AND MANUFACTURING</strong></td>
<td>Senior consultant, Deloitte Consulting, Program co-ordinator, Baseball Alberta</td>
</tr>
<tr>
<td><strong>PROFESSIONAL SERVICES</strong></td>
<td>Planner, Groundswell Urban Planners Inc.</td>
</tr>
<tr>
<td><strong>HOSPITALITY AND RECREATION</strong></td>
<td>Program co-ordinator, Baseball Alberta, Stage manager, Stratford Festival</td>
</tr>
<tr>
<td><strong>HEALTH CARE AND SOCIAL SERVICES</strong></td>
<td>Child protection worker, Children’s Aid Society, Resident physician MD, University of Toronto</td>
</tr>
</tbody>
</table>

96% of our employed co-op grads find jobs related to the skills they gained at Waterloo within six months of graduation.
RESIDENCE LIFE

100% residence guarantee for all new students

69% of students say it's easy to meet people while living in residence (compared to 29% of their off-campus peers)

24/7 controlled access to all residence buildings and rooms to keep you safe
Your new social network.

Living in residence puts you in the middle of the action. Get the full university experience while making friends and memories that will last long after graduation.

CHOOSING A RESIDENCE
Your home away from home should suit your budget and personality. Choose from Campus Housing’s traditional single or double rooms or a suite of four individual bedrooms, or opt to live at one of our on-campus University Colleges: Conrad Grebel University College, Renison University College, St. Jerome’s University, and St. Paul’s University College. All first-year residences offer personal and academic support to help you adjust to living away from home, including Living-Learning Communities, residence dons, and tutors.

FOOD AND MEAL PLANS
Enjoy fresh meals and snacks from 40 on-campus food vendors. You’ll find halal, kosher, and vegan options, plus custom creations for anyone with food allergies or other dietary restrictions. Save yourself time and money by purchasing one of our many meal plans. Whether you want a hearty breakfast or a quick snack between lectures, there’s no shortage of food options at Waterloo!

LIVING-LEARNING COMMUNITIES
Living-Learning Communities (LLCs) group students with common interests together within our larger residence communities. Live with peers from your program, students who share your passion for social justice, or other student athletes. You can apply to join an LLC when you apply to live in residence.

RESIDENCE LIFE DON SUPPORT
Residence life dons are upper-year students who live and work in the residences to facilitate an inclusive and supportive environment. They organize events, monitor the buildings, and offer support around the clock. Think of it like having fun, caring older siblings in residence with you.

95% of students who chose residence in first year returned for their second year of studies

Your residence facilities were built with your needs in mind. Need a place on campus to study with friends, pursue a hobby, or get some quiet time? We have a space for that! Campus Housing has many options to help you feel at home – from our multi-faith rooms to music rooms, our fitness facilities to study spaces, and more.

uwaterloo.ca/future/residence
Volunteering for the Substance Use Team sparked Prabhjeet’s passion for raising the awareness of drug use among teens. Through on-campus activities she generates discussion about knowing yourself, asking for help, and accessing the supports you need. “I’m so thankful that Waterloo helped me find this new interest and is creating a safe space to talk about mental health.”

Prabhjeet’s self-care includes dance, running, music, and friends (... and snuggling with therapy dogs each time they’re on campus).
We’re all in this together.

University can be rewarding and challenging. Our campus support services give you the resources and personal care you need to get the most out of your university experience.

**STRENGTH IN DIVERSITY**
Whatever your ethnicity, religion, gender, or sexual identity, you’re welcome here.

**INTERNATIONAL AND CANADIAN STUDENT NETWORK**
With the goal of making all students feel at home, this network connects local, international, and exchange students through weekly events.

**THE GLOW CENTRE FOR SEXUAL AND GENDER DIVERSITY**
The Glow Centre promotes a healthy attitude toward all sexual orientations and gender identities by offering confidential peer support, discussion groups, social events, and resources.

**RACIAL ADVOCACY FOR INCLUSION, SOLIDARITY, AND EQUITY (RAISE)**
RAISE seeks to dismantle systemic barriers that limit the success and affect the experiences of students by addressing the impacts of racism and xenophobia in our community.

**WATERLOO CHAPLAINS**
Waterloo has chaplains representing 11 different faith traditions. They can provide you with support and help as you explore spiritual questions.

**WELLNESS ON CAMPUS**
We offer extensive services to help keep your body and mind healthy and you at the top of your game.

**HEALTH SERVICES**
The on-campus Student Medical Clinic offers a range of services, from providing prescriptions and immunizations to addressing your mental and sexual health concerns. Meet with doctors, nurses, mental health specialists, and registered dietitians.

**COUNSELLING SERVICES**
Counselling Services is dedicated to supporting your personal, social, and academic experience at Waterloo. It offers one-on-one counselling and group therapy, plus coping skills seminars to support your mental health.

**MATES**
MATES (Mentor Assistance Through Education and Support) is a one-to-one student peer support program providing academic, personal, and mental health supports through workshops, appointments, and drop-in sessions across campus.

**STUDENT SUPPORT**
Take advantage of services to help you adjust to the expectations of university.

**STUDENT SUCCESS OFFICE**
Supporting you from Orientation right through to graduation, the Student Success Office will help you with academics and personal development. Services include academic skills and leadership workshops, peer success coaching, and exchange and study abroad programs.

**ACCESSIBILITY SERVICES**
AccessAbility Services helps ensure everyone has equal access to education. They’ll design and facilitate academic accommodation plans if you have a permanent, temporary, or even suspected disability.

*provided by Waterloo Undergraduate Student Association (WUSA)

**GLOW**
one of Canada’s oldest university-based LGBTQ+ groups

**Here 24/7**
provides addiction, mental health, and crisis services in person and over the phone
STUDENT LIFE

We know how to have fun.

Our campus is packed with opportunities to get involved no matter how unique your interests. Between our clubs, associations, recreation programs, and events, there’s something for everyone. For a look at student life, follow us on Instagram (@uofwaterloo).

YOUR STUDENT ASSOCIATION
The Waterloo Undergraduate Student Association (WUSA) is your voice on campus and the centre of student life. As an undergrad, you’re automatically a member, which means access to clubs, 12 student-run services, student government, and hundreds of job and volunteer opportunities.

CLUBS AND SOCIETIES
There’s no excuse for boredom on campus. We have more than 200 clubs, societies, and associations for you to explore. If you don’t see one that fits your exact interest, start your own club! There’s always room to expand the roster.

SPORTS AND RECREATION
Our fitness facilities, athletics clubs, intramural sports, varsity teams, and drop-in classes are available throughout the year to help you stay fit and get plugged in to campus life.

STUDENT EVENTS
Clear your calendar and check out the events happening around campus. To get you started, there’s Orientation, Welcome Week, and Black and Gold Day. Add in trivia nights, community festivals, and faculty events, and your social calendar will fill up quickly.

VARiASITY TEAMS

- Badminton
- Baseball
- Basketball
- Cross-Country
- Curling
- Field Hockey
- Figure Skating
- Football
- Golf
- Ice Hockey
- Nordic Skiing
- Rugby
- Soccer
- Squash
- Swimming
- Tennis
- Track and Field
- Volleyball

FREE entry to Waterloo Warriors home games with your Waterloo ID

211 academic, charitable, social, religious, political, athletic, and cultural student-run clubs to join

200+ students employed by your student association in part-time and co-op positions

uwaterloo.ca/future/life
From a small town in Ecuador to Canada’s innovation hub, Iliana was drawn to Waterloo by the Global Business and Digital Arts program. Although initially hesitant to start her academic career in the Bridge to Academic Success in English (BASE) program, Iliana is thankful for the experience.

“My BASE peer leaders helped me improve my speaking and listening skills. The program gave me the confidence to interact with English speakers while letting me work toward my degree.”

#BEYONDIDEAS  #STUDYINENGLISH  #PEERMENTORSHIP

GLOBAL BUSINESS AND DIGITAL ARTS
COMPLETED BRIDGE TO ACADEMIC SUCCESS IN ENGLISH
Here for you from day one.

Studying in a different country takes a lot of hard work and ambition. From International Orientation to English language support and cultural student groups, we’ll help you make a smooth transition to life in Waterloo.

**ENGLISH LANGUAGE PROGRAMS**

If you meet our academic admission requirements but your English language scores are just below the required scores, you may receive a conditional offer of admission through one of our English language pathway programs.

› Bridge to Academic Success in English
› English Language for Academic Studies

You don’t apply directly to these programs, but if you’re admitted to one, you’ll take intensive language courses while earning credit toward your Waterloo degree. See page 46 for our English language requirements.

**FRIENDS FROM HOME**

It’s great to make new friends, but sometimes it’s nice to connect with students from home. Among our 200+ clubs, we have over 30 cultural clubs, including:

› African Student Association
› Association of Caribbean Students
› Culture and Language Exchange Club
› Indian Cultural Association
› Muslim Students’ Association
› UW Daebak

**PRACTISE YOUR ENGLISH**

Join groups run by fellow students and language professionals where you can make friends, practise your English, and learn about Canadian culture.

› English Conversation Cafés
› Conversation Partner Program
› International Canadian Student Network

**WE HAVE YOU COVERED**

Need to visit a physician, dentist, counsellor, or physiotherapist? All these services are available on campus and are covered through the University Health Insurance Plan (UHIP) and our supplemental health and dental plan.

116 countries are represented by the undergraduate students on our campus

1 in 5 undergraduate students are international visa students

Regulated Canadian Immigration Consultants on campus to offer you immigration advice

uwaterloo.ca/future/transition
More than business.

Connect with others who are fascinated by the way business and money shape our world and who want to test their problem-solving, business savvy, and technical skills as you build a better tomorrow.

ENDLESS OPPORTUNITIES
Our programs were created in collaboration with employers to give you an edge in the marketplace. We prepare you for the world of business and give you the freedom to explore passions that will help you define your industry niche and expand your portfolio. You’ll find yourself among self-starters, working in paid co-op positions with top business leaders, and learning from a community of mentors.

HOME OF VELOCITY
Canada’s most productive startup incubator

For each work term within Canada in 2019, students enrolled in business programs at Waterloo earned $8,400–$17,400+.

*Student-reported earnings ranging from Ontario minimum wage to 95th percentile. May vary by jurisdiction.
EYE ON THE BALL

Some students value sleep and studying above all. Varun thrives on chaos. An accounting and finance major, he found the right balance, even playing for the Varsity Baseball team. “School is about more than studying. It’s balancing your physical and mental well-being, building friendships, and pushing yourself.”

His hard work and dedication have already paid off in the form of a job offer from Ernst & Young (EY) in Toronto. “Getting a job like this is the entire reason I’ve worked so hard these past few years.”

#BEYONDIdeAS
#GOLDENTicket
#EATSleepPlayBAllREPEAt

TOP 10 in Canada for business and management studies, and accounting and finance (QS World Rankings, 2020)

ENTREPRENEURIAL CULTURE

Waterloo can help you bring innovative, world-changing ideas to the global marketplace. Programs such as Velocity, St. Paul’s GreenHouse, and the Conrad School of Entrepreneurship and Business offer mentorship, creative space, and financial resources to get you started.

BUSINESS PROGRAMS

- Accounting and Financial Management
- Biotechnology/Chartered Professional Accountancy
- Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
- Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
- Computing and Financial Management
- Environment and Business
- Global Business and Digital Arts
- Honours Arts and Business
- Information Technology Management
- Management Engineering
- Mathematical Finance
- Mathematics/Business Administration
- Mathematics/Chartered Professional Accountancy
- Mathematics/Financial Analysis and Risk Management
- Recreation and Sport Business
- Science and Business
TRUE CALLING

For Esther, heading to work has taught her about mental health. Through her co-op experiences, she’s found her passion and seen the role therapeutic recreation can play in a person’s life.

“Building relationships with people who are experiencing mental health challenges has taught me about wellness and the role of therapy. My profs will simulate what it’s like to work in the field, with case studies and group projects, but it’s through real-world exposure that I’ve gained my deepest insights.”

#BEYONDIDEAS
#PURSUEYOURPASSION
#TRIALRUN
Want to make a difference that improves lives? Join this tight-knit community of students and professors dedicated to preventing disease, healing injuries, and optimizing the quality of life for people around the world. Learn relevant skills and concepts to prepare you for medical school, professional and graduate programs, or careers in health and leisure. You’ll graduate with a degree that will help you leave a lasting legacy of health and well-being.

**ENTRY PROGRAMS AND MAJORS**

Learn more about Applied Health Sciences (AHS) entry programs and majors on pages 32 to 39, or go online to download an AHS brochure.

› Health Studies
› Kinesiology
› Public Health
› Recreation and Leisure Studies
  • Recreation and Leisure Studies
  • Recreation and Sport Business
  • Therapeutic Recreation
  • Tourism Development

You can focus your studies through specializations starting in second year.
This is the place where creative minds and critical thinkers unite. Collaborate with peers and professors as you explore the diversity of the human experience and shine new light on age-old questions. Whether you’re in Accounting and Financial Management, Global Business and Digital Arts, or one of our 28 honours majors, you’ll benefit from the variety of academic departments you’ll interact with and the different perspectives they offer. You’ll graduate with the expertise employers need and the hands-on experience they want thanks to co-op terms, career-focused minors, study-abroad opportunities, and experiential education certificates.

ENTRY PROGRAMS
Learn more about Arts entry programs, majors, and specializations on pages 32 to 39, or go online to download any of our Arts brochures.

› Accounting and Financial Management
› Computing and Financial Management
› Global Business and Digital Arts
› Honours Arts*
› Honours Arts and Business*
› Social Development Studies

*Explore topics that interest you and pick your major at the end of first year.

PROFESSIONAL DEGREE
› Social Work (Renison University College)
  Apply after completing your undergraduate degree.

MAJORS
› Anthropology
› Classical Studies
  ■ Classical Studies
  ■ Classics (includes learning Greek and Latin)
› Communication Studies
› Economics
› English
  ■ Literature
  ■ Literature and Rhetoric
  ■ Rhetoric, Media, and Professional Communication
› Fine Arts
  ■ Studio Practice
  ■ Visual Culture
› French
› Gender and Social Justice
› German
› History
› Legal Studies
› Liberal Studies
› Medieval Studies
› Music
› Peace and Conflict Studies
› Philosophy
› Political Science
› Psychology
› Religious Studies
› Sexuality, Marriage, and Family Studies
› Social Development Studies
› Sociology
› Spanish
› Theatre and Performance

40% of your time studying a chosen major

90 partner universities offer international study exchanges to Arts students

800+ courses in 59 different subjects

35% of honours students add a second major and/or a minor to their degree to broaden their studies
WORLDLY WARRIOR

Why Arts? Ask Ola, an international student majoring in Political Science with minors in Economics and International Trade, and she’ll tell you about systems and sustainability. “My goal is to effect change. The best way to do this is through political activism, for example, helping to draft laws that support countries and communities to become more self-reliant.”

At Waterloo, Ola is driving change beyond the classroom, through her co-op terms and as president of the Black Association for Student Expression.

#BEYONDIDEAS #RAISEYOURVOICE #BETHECHANGE

uwaterloo.ca/future/arts
Every day in every way, women in engineering are changing the world for the better. At Waterloo it’s about collaborative teamwork, where every student brings their unique experiences and perspectives to solve difficult problems together. A proud voice for women in science, technology, engineering, and mathematics (STEM), Zahra advocates that gender diversity brings fresh perspectives and ideas to the traditionally male-dominated field.
ENTRY PROGRAMS

Learn more about each entry program on pages 32 to 39, or go online to download an Engineering brochure.

› Architecture* › Geological Engineering
› Architectural Engineering › Management Engineering
› Biomedical Engineering › Mechanical Engineering
› Chemical Engineering › Mechatronics Engineering
› Civil Engineering › Nanotechnology Engineering
› Computer Engineering › Software Engineering
› Electrical Engineering › Systems Design Engineering
› Environmental Engineering

You can choose to either specialize or broaden your studies through different program options and specializations beginning in second year.

*Students graduate with an Honours Bachelor of Architectural Studies degree from the School of Architecture located in Cambridge, Ontario.

TOP 50 in the world for engineering and technology (QS World Rankings, 2020)

For each work term within Canada in 2019, Waterloo Engineering students earned $8,400-$19,200+**

92% of our employed Engineering grads find jobs related to the skills they gained at Waterloo within six months of graduation

**Student-reported earnings ranging from Ontario minimum wage to 95th percentile. May vary by jurisdiction.

uwaterloo.ca/future/engineering
NURTURE YOUR NATURE

Waterloo is renowned for its entrepreneurial spirit. It’s the reason Mila chose Planning at Waterloo. She knew it could be the place for her to discover how to dream big.

“What struck me most was the collaborative community here.” This environment allowed her team to design a battery that stores the energy created when pedaling a bike, which earned them second place in the school’s prestigious Jack Rosen Pitch Competition. “It’s incredible what can happen when you’re given the resources, support, and encouragement to develop ideas.”

#BEYONDIDEAS
#PEDALPOWER
#NOPLANETB
RAISE THE BAR

Faculty of Environment

Join a global movement advocating for a greener, more sustainable future – whatever your #earthgoals. Learn how ecosystem restoration, environmental law, and urban planning support solutions to some of the world’s biggest challenges. Be an agent of change and build a better tomorrow with an Environment degree.

ENTRY PROGRAMS
Learn more about Environment entry programs and optional specializations on pages 32 to 39, or go online to download an Environment brochure.

› Environment and Business
› Geomatics
› Environment, Resources and Sustainability
› International Development
› Geography and Aviation
› Knowledge Integration
› Geography and Environmental Management
› Planning

#4 in Canada for development studies and #9 in Canada for geography (QS World Rankings, 2020)

#2 in Canada for efforts that advance implementation of the United Nations Sustainable Development Goals (Times Higher Education University Impact Rankings, 2020)

LARGEST Faculty of Environment in Canada

uwaterloo.ca/future/environment
OPEN INFINITE DOORS

Faculty of Mathematics

Take your talent to the next level with a degree in mathematics or computer science. With more than 500 courses in every area of mathematics, statistics, and computer science to choose from, you’ll develop the theoretical and applied knowledge you need to succeed. Explore concepts that ignite your imagination, from quantum computing to number theory. Refine your skills through co-op terms, minors, and specializations. By graduation, your career prospects will be infinite.

ENTRY PROGRAMS AND MAJORS
Learn more about these programs on pages 32 to 39, or go online to download any of our brochures.

› Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
› Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
› Computer Science
   ▪ Computer Science
   ▪ Data Science
› Computing and Financial Management
› Mathematics
   ▪ Actuarial Science
   ▪ Applied Mathematics
   ▪ Biostatistics
   ▪ Combinatorics and Optimization
   ▪ Computational Mathematics
   ▪ Data Science
   ▪ Mathematical Economics
   ▪ Mathematical Finance
   ▪ Mathematical Optimization
   ▪ Mathematical Physics
   ▪ Mathematical Studies
   ▪ Mathematics/Teaching
   ▪ Pure Mathematics
   ▪ Statistics
› Mathematics/Business Administration
   ▪ Information Technology Management
› Mathematics/Chartered Professional Accountancy
› Mathematics/Financial Analysis and Risk Management
   ▪ Online degree available
› Mathematics/Business Administration
   ▪ Information Technology Management
› Mathematics/Chartered Professional Accountancy
› Mathematics/Financial Analysis and Risk Management
   ▪ Online degree available
› Software Engineering

TOP 50
in the world for mathematics and computer science (QS World Rankings, 2020)

70% of top careers start with a mathematics or computer science degree (CareerCast 2019)

For each work term within Canada in 2019, Waterloo Mathematics students earned

$8,400–$21,000+

*Student-reported earnings ranging from Ontario minimum wage to 95th percentile. May vary by jurisdiction.
EXPRESS YOURSELF

You can’t limit creativity, and you certainly can’t limit Clare, a Schulich Leader Scholarship nominee, YouTube producer, scriptwriter, and aspiring mathematician, Clare doesn’t fit into a neat little box. She takes advantage of opportunities across campus to get involved and express herself.

During class, Clare explores “creative mathematics” in Combinatorics and Optimization. The rest of the time, she makes videos for her friends and lends her creative superpowers to FASS, Waterloo’s amateur theatre company, as a scriptwriter. Her advice for nervous newcomers: “Leave your comfort zone! Explore new clubs and meet people! You’ll have more fun.”

#BEYONDIDEAS #CREATIVEGENIUS #PINKTIE
GET A STRONG REACTION

Faculty of Science

In our most research-centric faculty, use your curiosity, ingenuity, and passion for knowledge to discover everything from atoms and cells to the vast expanses of space. Learn to think critically, experiment confidently, and engage intelligently through hands-on labs, projects, and co-op terms. Participate in groundbreaking research or test your ideas in our Science Innovation Hub. Whichever path you choose to explore, your science degree will give you the foundation you need to succeed.

Award-winning professor

Nobel Prize in Physics (2018)
Donna Strickland
When Carson chose his major in Earth Sciences, he imagined spending time in the field, studying rocks, and bonding with nature. So, when he landed a summer job in Nunavut charting rocks and living in a tent, he knew he’d made the right choice.

“It was like nothing I’d ever experienced, and yet it was exactly how I imagined myself. Solving mysteries within the Earth fascinates me, and there’s still so much we don’t understand about the world around us. Geology is like a giant puzzle with many possible outcomes. I love that.”

7 science-related clubs to meet other students and build connections

100+ courses give you hands-on lab experience

$50M+ in annual research funding helps to finance meaningful research jobs for Science students

ENTRY PROGRAMS AND MAJORS
Learn more about these programs on pages 32 to 39, or go online to download any of our Science brochures.

› Biotechnology/Chartered Professional Accountancy
› Environmental Science
› Honours Science
› Life Sciences*  
  ■ Biochemistry  
  ■ Biology  
  ■ Biomedical Sciences  
  ■ Psychology
› Physical Sciences*  
  ■ Chemistry  
  ■ Earth Sciences  
  ■ Life Physics  
  ■ Materials and Nanosciences  
  ■ Mathematical Physics  
  ■ Medicinal Chemistry  
  ■ Physics  
  ■ Physics and Astronomy
› Science and Aviation
› Science and Business

*Select your major when you apply.

PROFESSIONAL DEGREES
Apply to a recommended Bachelor of Science (BSc) program to meet admission requirements for these programs:

› Doctor of Optometry (OD)  
  Apply as early as your third year in a BSc program.
› Doctor of Pharmacy (PharmD)  
  Apply as early as your second year in a BSc or other post-secondary program.
**PROGRAM DETAILS**

*The finer points.*

Use the program descriptions together with the admission charts to choose a program that suits your interests and academic strengths. Every program has minimum course and grade requirements you’ll need to meet, so take your time, do your research, and always check the asterisks!

[More program details and links](uwaterloo.ca/future/programs)


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**LEGEND**

- Only offered at the University of Waterloo
- Available online

<table>
<thead>
<tr>
<th>Entry-level program: apply directly through Ontario Universities’ Application Centre (OUAC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major: subject of major interest, apply through an entry-level program</td>
</tr>
<tr>
<td>Sample courses</td>
</tr>
<tr>
<td>Specializations</td>
</tr>
<tr>
<td>Career possibilities</td>
</tr>
</tbody>
</table>
ARCHITECTURE / SCHOOL OF ARCHITECTURE (E, Bachelor of Architectural Studies) Co-op only
Create the blueprints for a great career in one of North America’s top schools of architecture. From day one, you’ll have your own dedicated studio space to develop your ideas as you explore the relationship between architecture, the environment, and society. In fourth year, study at our studio in Rome. Questions? Email architecture@uwaterloo.ca.
- Architect, project manager, designer, sustainable development and heritage professional

BIOCHEMISTRY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available
Play with the building blocks of life. Combine classroom courses in biology and chemistry with extensive lab work (where you’ll learn things like chromatography, electrophoresis, and protein analysis). You’ll graduate ready for careers in forensic science, pharmaceuticals, medical diagnostics, agriculture, biotechnology, and more.
- Fundamentals of Metabolism, Intro Analytical Chemistry, Genetics
- Biotechnology
- Toxicologist, biomaterials researcher, health-care professional

BIOLOGY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available
Study life: it’s in your DNA. With more than 80 courses available – including labs and fieldwork – this program gives you lots of opportunity to explore the functions of living organisms, where they come from, and how they evolve. You can also choose our Bioinformatics Option, combining biological analysis with computer science.
- Fundamentals of Microbiology, Principles of Human Physiology, Diversity of Life
- Biologist, veterinarian, environmental consultant, physician, pharmacist, optometrist

BIOMEDICAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Create tomorrow’s life-saving and life-enhancing innovations. In this interdisciplinary program, you’ll study engineering principles in biology, mechanics, physics, systems analysis, and design. With plenty of hands-on experience in biological and medical systems, you’ll graduate ready to develop new technology for health care or athletics.
- Introduction to Biomedical Design, Engineering Biology, Anatomical Systems Modeling
- Neural Engineering, Sports Engineering
- Research and development of medical devices, biomedical data analysis, product design of sporting equipment

BIOTECHNOLOGY/CHARTERED PROFESSIONAL ACCOUNTANCY / FACULTY OF SCIENCE AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Science) Co-op only
Spreadsheets plus science and paid co-op experience equals career success. This unique program prepares you for professional accountancy and advisory roles in the growing biotech sector. After graduation, earn your Master of Accounting (MAcc) degree in only eight months – an optional next step in becoming a Chartered Professional Accountant (CPA).
- Analytical Methods in Molecular Biology, Introduction to Managerial Accounting, Fermentation Biotechnology
- Accountant, finance coordinator, analyst

BUSINESS ADMINISTRATION (LAURIER) AND COMPUTER SCIENCE (WATERLOO) DOUBLE DEGREE / DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Business Administration and Bachelor of Computer Science) Co-op only
Combine the worlds of bytes and business – and earn two degrees in five years. In one of the top computer science programs in Canada, you’ll learn about software development, algorithms and data structures, and artificial intelligence. At nearby Wilfrid Laurier University, you’ll study business essentials like brand communication, accounting, and marketing.
- Designing Functional Programs, Understanding the Business Environment, Computer Organization and Design
- Business analyst, software engineer, application developer

BUSINESS ADMINISTRATION (LAURIER) AND MATHEMATICS (WATERLOO) DOUBLE DEGREE / FACULTY OF MATHEMATICS (E, Bachelor of Business Administration and Bachelor of Mathematics) Co-op only
Five years, two degrees, one serious edge. Combine Waterloo’s strength in mathematics with the business expertise of Wilfrid Laurier University, and earn two prestigious degrees in the time it takes to earn one co-op degree. You’ll graduate from one of Canada’s most technical business programs with analytical and problem-solving skills that will set you apart.
- Financial Mathematics, Information Systems Management, Introduction to Optimization
- Securities trader, management analyst, corporate strategist

CHEMICAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Discover how to transform raw materials while putting your creativity and problem solving to the test. You’ll learn to design, implement, and supervise the processes that transform fuel into energy, water into energy, and raw materials into useful products in almost any industry: biotechnology, pollution control, green fuels, power storage, and more.
- Materials Science and Engineering, Bioprocess Engineering, Process Analysis and Design
- Design and creation of pharmaceuticals, manufacturing of microelectronics, process engineering of petrochemicals
CHEMISTRY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available

Fire up the Bunsen burners in one of Canada’s top chemistry programs. You’ll learn from leading experts in the industry, work with advanced chemical instrumentation in our labs, and participate in cutting-edge research. This program is accredited by the Canadian Society for Chemistry and the Chemical Institute of Canada.

● Multi-Component Analysis, Structure and Bonding, Quantum Mechanics
● Computational Chemistry, Bio-based Chemistry (Bio-based Chemistry is available only in the regular stream of study)
● Analytical chemist, chemistry patents agent, forensic scientist

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

Make the world your sandbox in Canada’s largest civil engineering program. Learn to design, construct, and manage the infrastructure we all depend on: bridges, highways, dams, pollution-control facilities, and more.

● Structure and Properties of Materials, Engineering and Sustainable Development, Civil Engineering Systems and Project Management
● Transportation, Structures, Water Resources
● Design and construction of roadways, buildings, urban transportation, and water systems

CLASSICAL STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Delve into the roots of Western civilization. Gain a deep understanding of history, culture, literature, religion, art, philosophy, and society in ancient Greece and Rome – cultures that continue to shape our thinking and our society today. Take advantage of study-abroad opportunities in the Mediterranean. Language courses are optional. Choose Classics or Classical Studies as your major (Classics includes learning Greek and Latin).

● Greek Art and Architecture, Astrology and Magic, Roman History
● Teacher, reference librarian, technical writer

COMBINATORICS AND OPTIMIZATION / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Master two of math’s most powerful techniques. Combinatorics focuses on finite structures, while optimization explores ways to make an operation more efficient. Through courses in cryptography, graph theory, and linear programming, you’ll learn how to apply these ideas to problems in areas ranging from security to scheduling to risk analysis.

● Introduction to Combinatorics, Introduction to Optimization, Coding Theory
● Developer, operations research analyst, cryptographer

COMMUNICATION STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

In this exciting, highly interactive program, you’ll explore how our everyday forms of communication create meaning and shape our perspective of the world. Through creative, collaborative, and critical engagement, you’ll prepare for a career in public relations, broadcasting, teaching, or marketing.

● Persuasion, Crisis Communication, Digital Presentations
● Strategic planning officer, communications officer, digital media coordinator

COMPUTATIONAL MATHEMATICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Get ready to solve industrial-sized problems. In one of the world’s top schools for math and computer science, learn to analyze data sets and formulae to better understand the world around us. You’ll develop computer modeling skills to tackle mathematical problems found in business, economics, engineering, finance, medicine, and science.

● Data Structures and Data Management, Logic and Computation, Computer Simulation of Complex Systems
● Project manager, enterprise architect, software developer

COMPUTER ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only

Why choose? Develop software savvy and hardware know-how. Build and test computer hardware and software in our state-of-the-art labs. You’ll work with everything from smartphones to massive engineered systems in networked environments. Plus, gain valuable work experience in Waterloo Region: a high-tech hub home to more than 1,500 technology companies.

● Systems Programming and Concurrency, Computer Networks, Computational Intelligence
● Communications and Signal Processing
● Full stack software development, embedded platform engineering, data analytics

COMPUTER SCIENCE / DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (E or M, Bachelor of Computer Science or Bachelor of Mathematics) Co-op available

Earn a degree that computes. At one of the world’s best schools for computer science, you’ll develop a broad understanding in areas including systems, networks, algorithms, and software engineering. With 70+ computer science courses and loads of options and electives, you’ll have lots of freedom to explore your interests. Questions? Email Info-pre-grad@cs.uwaterloo.ca.

● Designing Functional Programs, Data Structures and Data Management, The Social Implications of Computing
● Software developer, web developer, business or risk modelling analyst

COMPUTING AND FINANCIAL MANAGEMENT / SCHOOL OF ACCOUNTING AND FINANCE AND DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Computing and Financial Management) Co-op only

Develop the know-how, networks, and experience to land a career in computer science or finance – or both. Combine your interests in computer science and finance courses, and six co-op work terms in software development, banking, investments, risk management, or insurance to set yourself apart in a competitive marketplace. Questions? Email cfm@uwaterloo.ca.

● Object-Oriented Software Development, Regression and Forecasting Methods in Finance, Equity Investments
● Software developer, quantitative analyst, investment banking analyst

DATA SCIENCE / DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (M, Bachelor of Computer Science or Bachelor of Mathematics) Co-op available

Make sense of the tsunami of data produced by business, scientific, and social activity. Develop the foundation in computing systems, data analysis, statistics, and machine learning you need to extract meaningful information from data. You’ll graduate with the skills to predict trends and help governments and businesses make better decisions.

● Computer Organization and Design, Data Visualization, Data Structures and Data Management
● Data scientist, statistician, business analyst

EARTH SCIENCES / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available

Launch a career that rocks. Explore the world under your feet in close-knit classes and through field experiences led by professors known internationally for their geological and water research. You’ll graduate ready to develop meaningful environmental protection plans, predict natural disasters, advance health standards for water, and more.

● Earth System Science, Petrography, Mineralogy
● Geology, Geochemistry, Hydrogeology
● Hydrogeologist, geologist, geophysicist

ECONOMICS / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

From piggy banks to the World Bank, learn how wealth is produced, distributed, and consumed – and how it shapes society, politics, and culture. You’ll cover the fundamentals of micro- and macroeconomics and analyze how these principles play out in a wide range of sectors, including finance, public policy, and international economics.

● Economics of Sport, Business Finance, Environmental Economics
● Econometrics, Finance, Public Policy
● Financial planner, marketing research manager, economist, financial analyst, international finance manager

ELECTRICAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only

Set yourself up for an electrifying future – explore electronic devices, control systems, and digital systems in some of North America’s best electrical engineering student labs. By mastering the design principles required to build the latest technologies in power, information, and energy, you’ll open the door to hundreds of possible careers!

● Semiconductor Physics and Devices, Power Systems and Smart Grids, Electromagnetic Fields and Waves
● Communications and Signal Processing
● Autonomous vehicle control, renewable energy development, sensor and actuator design

ENGLISH / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Go way beyond emojis. Our 150+ undergraduate courses give you all kinds of opportunity to explore the written word. Examine English literature, language, and new media while honing your skills as a communicator. Choose one of three majors: Literature, Literature and Rhetoric; or Rhetoric, Media, and Professional Communication.

● Popular Potter, Game Studies, Global Shakespeare
● Creative Writing, Digital Media Studies, Global Literatures, Technical Writing
● Communications manager, media relations specialist, technical writer, publisher, social media strategist

ENVIRONMENT AND BUSINESS / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op only

Eco-warrior, meet business mogul. The only program of its kind in Canada, this degree gives you in-depth knowledge of environmental issues and the business world. Cover everything from stakeholder engagement and industrial ecology to finance, project management, marketing, and more. Then, put it all into practice in co-op work terms.

● International Corporate Responsibility, Green Entrepreneurship, Business Finance
● Sustainability analyst, environmental stewardship manager, environmental policy advisor
ENVIRONMENT, RESOURCES AND SUSTAINABILITY / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available
Become a sustainability superhero. Use insights from the natural, physical, and social sciences to help solve some of the world’s biggest environmental challenges – from water scarcity to pollution to loss of biodiversity. Learn about conserving and restoring ecosystems, and explore issues in environmental politics, policy, and governance.
- Communities and Sustainability, Environmental and Sustainability Assessment, Ecosystem Assessment
- Terrestrial and wetland biologist, sustainability policy analyst, sustainable energy consultant

ENVIRONMENTAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Save the planet with a degree from Canada’s largest environmental engineering program. Combine the technical rigour of engineering with a broad education in chemistry, biology, geology, and more. You’ll graduate ready to clean up the world’s water, soil, and air pollution – and to prevent future environmental problems.
- Air Quality Engineering, Environmental and Sustainability Assessment, Environmental Modelling
- Energy, Hydrology, Pollution Treatment and Control
- Product design for air pollution control systems, process design for water treatment, protection and revitalization of ecosystems

ENVIRONMENTAL SCIENCE / FACULTY OF SCIENCE (E, Bachelor of Science) Co-op available
Earn a science degree. Protect the Earth. Ranked among the top 10 in Canada, this program gives you a scientist’s perspective of ecological and geological systems. You’ll graduate with the knowledge, creativity, and expertise to create a more sustainable world.
- Organismal and Evolutionary Ecology, Geomorphology and GIS Applications, Applied Wetland Science
- Ecology, Geoscience, Water Science
- Geoscientist, ecologist, environmental consultant

FINE ARTS / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Explore the power of visual communication. Develop a critical understanding of art through painting, drawing, sculpture, printmaking, computer imaging, art history, and film studies. Choose Visual Culture or Studio Practice as your major. Want more? Add the teaching specialization to land a spot in teacher’s college at Nipissing University.
- History of Film and Visual Media, Observational Drawing, Digital Imaging
- Teaching Preparation, Intensive Studio, Digital Art
- 3D visual effects artist, illustrator, teacher, web designer, curator, interior designer, art therapist

FRENCH / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Chez Waterloo, les possibilités sont infinies. A French degree gives you a valuable edge in almost any field. Include a year of study in Québec or France, or live on the French-language residence floor on campus. And if you choose our French Teaching Specialization, you’ll guarantee yourself a spot in teacher’s college at Nipissing University.
- Introduction to Translation, Business French, Children’s Literature in French
- Professional French, French Teaching
- Director of international sales, immigration officer, translator, teacher

GERMAN / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Get an education that’s wunderbar. We offer way more than just German language courses. Explore German culture, him, literature, and linguistics, or add classes in Slavic languages like Russian and Croatian. You can even earn credits studying in Germany. You’ll graduate with valuable skills for careers in education, business, and government.
- German through Comics, German for Professional Purposes, German Filmmakers in Hollywood
- Editor and communications manager, business analyst, sales manager

GLOBAL BUSINESS AND DIGITAL ARTS / FACULTY OF ARTS (E, Bachelor of Global Business and Digital Arts) Regular system of study only
Lead business into the future through the power of digital media. Explore cross-cultural communication and management, digital design, and emerging technologies. Spend your upper years at the Stratford School of Interaction Design and Business, and enhance your learning with a paid internship. Questions? Email stratfordprograms@uwaterloo.ca.
- 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
Put your future on solid ground – and help the world do the same! You’ll combine earth sciences with civil engineering to design smart foundations, mitigate and reduce losses during natural disasters, and contribute to sustainable resource development globally. Meanwhile, with a ton of field courses, you’ll spend more time outside the classroom than in any other engineering program.
- Structural Geology, Applied Geophysics, Rock Mechanics
- Geology; Hydrogeology; Soil, Rock and Structures
- Design of terrain sensors, hazard assessment of landslides and earthquakes, surface and subsurface infrastructure

HEMATOLOGY / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available
Get ready to tackle global epidemics, transform public health policy, and more – or pursue further studies in medicine, epidemiology, or nursing.
- Canadian Health Systems; Development, Aging, and Health; Environmental Toxicology and Public Health

HISTORY / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Develop a world view that goes back centuries. With support from award-winning professors, you’ll develop analytical skills and a knack for seeing patterns from the past that can make sense of the present and influence the future. Focus on Canadian, American, European, or international history. You can even take a portion of your degree in China!
- Rock ’n’ Roll and US History, Russia: From Tsars to Putin, Indigenous Histories of Canada
- Applied History; Global Interactions; International Relations; Revolution, War, and Upheaval
- Government affairs manager, executive researcher, lawyer, director of government relations
Pursue your passions. Shape your future. Explore a variety of subjects, or immerse yourself in one of 28 Arts majors. Choose to add co-op and get up to 20 months of paid work experience before you graduate. Refer to your specific major of interest (M) for details. Also offered at St. Jerome's University and Renison University College, smaller academic communities on Waterloo's campus.

HONOURS ARTS / FACULTY OF ARTS (E, Bachelor of Arts) Co-op available

Combine valuable business studies with one of 28 Arts majors. Opt for co-op and gain nearly two years of paid work experience. Refer to your major of interest (M) for details. After applying, you may co-register with St. Jerome's University or Renison University College, smaller academic communities on Waterloo's campus.

HONOURS SCIENCE / FACULTY OF SCIENCE (E, Bachelor of Science) Co-op available

Combine valuable business studies with one of 28 Arts majors. Opt for co-op and gain nearly two years of paid work experience. Refer to your major of interest (M) for details. After applying, you may co-register with St. Jerome's University or Renison University College, smaller academic communities on Waterloo's campus.

HONOURS SCIENCE / FACULTY OF SCIENCE (E, Bachelor of Science) Regular system of study only

Deciding is difficult. If you're still exploring which sciences interest you the most, Honours Science is a brilliant choice. You'll have the flexibility to take the courses you want or handpick the ones you need, which is convenient if you plan to apply to a professional school with prerequisite course requirements.

- Fundamentals of Microbiology, Modern Physics, Geochemistry
- Physician, optometrist, pharmacist, genetic counselor, teacher

INFORMATION TECHNOLOGY MANAGEMENT / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Become fluent in IT talk and business jargon. Combine computer science studies in systems analysis, e-business, and networks with business courses such as marketing, project management, and statistics. You'll graduate with the ability to apply IT solutions to business processes and bridge the gap between CEO and computer specialist.

- Management Information Systems, Electronic Business, Computer Applications in Business: Databases
- Business systems analyst, web developer, database administrator

INTERNATIONAL DEVELOPMENT / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Regular system of study only

Get the toolkit you need to build a better world. Tackle issues of economic inequality, social injustice, and environmental change, and apply your skills on an eight-month overseas placement. You'll graduate knowing how to design development projects that are ethical, environmentally sustainable, culturally responsible, and evidence-based.

- Problem-Solving for Development, Global Cities in Global Development, Introduction to Social Entrepreneurship
- Not-for-profit program manager, international partnership manager, grant officer

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

Make a smart play: study the science of human movement. In this multidisciplinary program, you'll gain hands-on skills in preventing, assessing, and treating movement-related illness and injury (and study anatomy on real human cadavers). Choose from four specializations to prepare for professional programs in medicine, chiropractic, or physiotherapy.

- Human Anatomy: Limbs and Trunk, Fundamentals of Exercise Science, Musculoskeletal Injuries in Work and Sport
- Ergonomics and Injury Prevention, Human Nutrition, Medical Physiology, Rehabilitation Sciences
- Health professional (e.g., medical doctor, physical therapist, occupational therapist, athletic therapist, kinesiologist, chiropractor), ergonomist, rehabilitation specialist

KNOWLEDGE INTEGRATION / FACULTY OF ENVIRONMENT (E, Bachelor of Knowledge Integration) Regular system of study only

Pursue all your passions. More than a mix of arts and sciences, this program is built around a core set of skills that equip you to understand and solve tough problems, communicate effectively, and make a difference in a complex and changing world. Choose a traditional specialization or create one that is uniquely yours.

- Collaboration, Design Thinking, and Problem Solving: Nature of Scientific Knowledge; Creative Thinking
- Collaborative Design; Science, Technology, and Society
- Business analyst, design strategist, user experience researcher, lawyer, physician

LEGAL STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Judge the impact of the legal system (no gavels required). Explore the law and courts from the viewpoint of political science, history, sociology, philosophy, and peace and conflict studies. Because law touches nearly every aspect of society, this degree is great preparation for a career in government, business, law enforcement, or the law itself.

- Criminology, Women and the Law, Children’s Rights in Canada
- Legal assistant, records clerk, executive researcher, probation and parole officer, lawyer

LIBERAL STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Who says you can't have it all? With Liberal Studies, explore different subjects in the humanities, social sciences, languages and cultures, and fine and performing arts – plus courses you’ld like to take from some of Waterloo’s other faculties.

- Introduction to Microeconomics, Conflict Resolution, Basic Human Resources Management, Introduction to Legal Studies
- Publisher, digital marketing specialist, teacher, human resources manager, library technician

LIFE PHYSICS / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available

Rocket science, meet medical science. Prepare for professions such as radiation oncology and medical imaging that harness the power of physics. This flexible, interdisciplinary program gives you a solid foundation in physics, chemistry, and biology, with plenty of hands-on labs and opportunities to get involved in research.

- Geometrical and Physical Optics, Modeling Life Physics, Molecular and Cellular Biophysics
- Biophysics, Medical Physics
- Medical physicist, physician, biophysicist

LIFE SCIENCES / FACULTY OF SCIENCE (E, Bachelor of Science) Co-op available for some majors

If you want to study the science of living things, this is your starting point. Apply to this entry program to study these majors (M) standing in first year: Biochemistry, Biology, Biomedical Sciences, or Psychology. Refer to your major of interest (M) for details.

MANAGEMENT ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only

Be the one who always knows the best path forward. You’ll study industrial engineering principles, advanced data analytics, mathematical modelling, and computer programming to optimize processes in any organization. You’ll become an invaluable asset to employers, solving complex technical and management problems in a variety of industries.

- Data Mining, Supply Chain Management, Human-Computer Interaction
- Data scientist, business intelligence analyst, technical product manager

MATHEMATICAL FINANCE / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Do the math that underpins economics. Learn about the mathematical models that drive economic theory and how to use differential calculus, differential equations, and mathematical optimization to understand and predict economic behaviour. You’ll graduate ready for a career with banks, government, or industry, or for a master’s or doctoral program.

- Microeconomic Theory, Macroeconomic Theory, Differential Equations for Business and Economics
- Business analyst, economist, consultant

MATHEMATICAL FINANCE / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Study equations that include dollar signs, and join other elite math students in one of the world’s most advanced undergraduate finance programs. You’ll explore the math behind financial markets, study corporate finance, quantitative risk management, statistical forecasting, and more – everything you need for a high-flying career in banking and finance.

- Introduction to Investments, Forecasting, Real Analysis
- Controller, compliance analyst, investment policy analyst
MATHEMATICAL OPTIMIZATION / FACULTY OF MATHEMATICS
(M, Bachelor of Mathematics) Co-op available
Find solutions to resource scarcity issues, from streamlining sports team schedules to making factories more efficient. You’ll study mathematical modelling in your optimization, probability, statistics, and computer science courses and hone your skills with case studies. Then round out your degree with business, economics, and management science.
- Introduction to Computational Mathematics, Computer Simulation of Complex Systems, Portfolio Optimization Models
- Business, Operations Research
- Business analyst, Information technology architect, risk analyst

MATHEMATICAL PHYSICS / FACULTY OF MATHEMATICS
(M, Bachelor of Mathematics) Co-op available
Master advanced math to decode everything from the cosmos to quantum computing. You’ll study high-level math and physics at Canada’s only faculty of mathematics and one of Canada’s most innovative departments of physics. Then choose a career in the semiconductor industry, telecommunications, or medical technology or go on to graduate studies.
- Waves, Electricity and Magnetism; Introduction to Theoretical Mechanics; Quantum Theory
- Operations specialist, Information technology architect, software modeller

MATHEMATICAL PHYSICS / FACULTY OF SCIENCE
(M, Bachelor of Science) Co-op available
Dig deeper into physics with a serious helping of math. Take advantage of Canada’s only faculty of mathematics and one of Canada’s most innovative departments of physics to explore both subjects in depth. It’s great grounding for careers involving anything from the theoretical foundations of quantum technology to the nature of the universe.
- Differential Equations and Physics, Chemistry, Quantum Theory, Classical Mechanics and Special Relativity
- Theoretical physicist, data scientist, quantitative analyst

MATHEMATICAL STUDIES / FACULTY OF MATHEMATICS
(M, Bachelor of Science)
Choose your own adventure! You’re looking for a degree that covers the full spectrum of math. We’re one of the world’s top centres for math and computer science. Together, we’re a logical match. Waterloo’s most flexible math program allows you to study algebra, calculus, combinatorics, computer science, number theory, statistics, and more.
- Mathematical Discovery and Invention, Introduction to Mathematical Biology, Coding Theory
- Software or database specialist, banking executive, public service analyst

MATHEMATICS / FACULTY OF MATHEMATICS
(E, Bachelor of Mathematics) Co-op available
Earn a degree that counts! Apply to Mathematics to study any of the following math majors (M): Actuarial Science, Applied Mathematics, Biomathematics, Combinatorics and Optimization, Computational Mathematics, Data Science, Mathematical Economics, Mathematical Finance, Mathematical Optimization, Mathematical Physics, Mathematical Statistics, Mathematics/Teaching, Pure Mathematics, and Statistics,

MATHEMATICS / BUSINESS ADMINISTRATION / FACULTY OF MATHEMATICS
(E, Bachelor of Mathematics) Co-op available
It’s a simple equation: math + business = career success. Build your degree with courses from two prestigious institutions: math courses from Waterloo’s Faculty of Mathematics and business courses from nearby Wilfrid Laurier University. You’ll combine the technical expertise and analytical know-how to thrive in the world of business.
- Corporate Finance, Introduction to Managerial Accounting, Organizational Behaviour
- Operations manager, risk modelling analyst, investor relations specialist

MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY / FACULTY OF MATHEMATICS AND ACCOUNTING AND FINANCE
(E, Bachelor of Mathematics) Co-op only
Really understand the numbers. In this one-of-a-kind program, you’ll earn a Bachelor of Mathematics as you prepare for a career as a Chartered Professional Accountant (CPA). You’ll acquire a strong background in the mathematical field of your choice, along with equally focused studies in accounting, economics, and business.
- Introduction to Financial Accounting, Cost Management Systems, Corporate Finance
- Accountant, controller, auditor

MATHEMATICS / FINANCIAL ANALYSIS AND RISK MANAGEMENT / FACULTY OF MATHEMATICS
(E, Bachelor of Mathematics) Co-op available
Crunch numbers, calculate odds, and create career success in this challenging program – one of just a few across Canada recognized by the CFA Institute and PRMIA. You’ll combine mathematics with finance, accounting, economics, and risk management. Specialize in chartered financial analysis or risk management, and graduate ready for your professional exams.
- Computational Methods in Business and Finance, Applied Linear Models and Process Improvement for Business, Commercial and Business Law for Mathematics Students
- Financial analyst, risk analyst, investment analyst

MATHEMATICS/TEACHING / FACULTY OF MATHEMATICS
(M, Bachelor of Mathematics) Co-op only
Inspire the next generation as a high school math teacher. Combine your math, statistics, and computer science courses with eight months of classroom experience – more than any other Bachelor of Education preparatory program in Canada – before you apply to teachers’ college. Want to do some of your learning overseas? Opt for our four-month Math in Europe program.
- Introduction to Mathematics Education, Educational Psychology, Mathematical Discovery and Invention
- Teacher, online learning consultant, instructional media developer

MECHANICAL ENGINEERING / FACULTY OF ENGINEERING
(E, Bachelor of Applied Science) Co-op only
Put your career in gear. This program gives you a broad foundation in all aspects of mechanical design – and lots of opportunities to get your hands dirty in our well-equipped labs. You’ll study factors like the environment, safety, manufacturing, and materials, so you’ll graduate with the knowledge to design everything from switches to spacecrafts.
- Aerodynamics, Industrial Metallurgy, Electromechanical Devices and Power Processing, Heat Transfer
- 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
Build the next generation of “smart” machines, emergency response drones, and driverless cars. You’ll combine mechanical, electrical, computer, and software engineering to develop robots, intelligent vehicles, and more. With co-op and labs starting in first year, you’ll gain lots of experience creating sophisticated electromechanical devices.
- Sensors and instrumentation, Microprocessors and Digital Logic, Structure and Properties of Materials
- 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
Explore the exciting science of drug discovery. You’ll take courses in computer-aided drug design and gain valuable work experience in places like pharmaceutical companies and hospitals. By graduation, you’ll understand how to design, synthesize, and evaluate potential medications – ready to create the life-saving treatments of tomorrow.
- Chemical Kinetics, Transition Element Compounds and Inorganic Materials, Fundamentals of Metabolism
- Medicinal chemist, research chemist, synthetic chemist

MEDIEVAL STUDIES / FACULTY OF ARTS
(M, Bachelor of Arts) Co-op available
Immerse yourself in the Middle Ages – minus the dysentery – in Canada’s longest-standing Medieval Studies program. By concentrating on this crucial era in Western civilization, you’ll gain insights into European politics, modern gender norms, the connections between Islam and Christianity, and more. (You can even study abroad in a castle!) 
- Crusading in the Middle Ages, Medieval Society, The History of Islamic Civilization
- Professional writer, librarian, historical site manager, teacher

MUSIC / FACULTY OF ARTS
(E, Bachelor of Arts) Co-op available
Explore Beethoven to Bieber, sold to software. Learn about the importance of music 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 psychology.
- Music Cognition, Introduction to Jazz, Soundtracks: Music in Film
- Church Music and Worship, Music in Global Context, Music and Peace
- Teacher, performer, associate pastor of music, music store owner, recording studio owner

NANOTECHNOLOGY ENGINEERING / FACULTY OF ENGINEERING
(E, Bachelor of Applied Science) Co-op only
Design solutions measured in billions of a metre in Canada’s only undergraduate nanotechnology engineering program. Combining engineering principles with ideas from chemistry, electronics, quantum physics, and biology, you’ll create the tiny technologies that are revolutionizing everything from smartphones to food processing to cancer treatment.
- Nanotoxicology, Nanoelectronics, Structure and Properties of Nanomaterials
- Nanomedicine, nano-engineered materials, research and manufacturing of integrated circuits, financial technology
PEACE AND CONFLICT STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Choose a degree that can change the world. 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 conflict and promoting peace through Canada's development specialist, social services worker, community development officer, international development manager, human resources manager.

PHYSICS / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available

Become the next Einstein (wild hair optional). Understand how the universe works: from quantum particles and exotic states of matter to curved space-time 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.

- Modern Physics, Statistical Mechanics, Computational Physics
- Physicist, research and development scientist, analyst, teacher

PHYSICS AND ASTRONOMY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available

Aim for a career with astronomical possibilities. Learn from award-winning professors who are studying some of the most fascinating phenomena in the universe: black holes, the Big Bang, dark matter, and more. It's perfect preparation for careers in optics and space science or for graduate studies in topics such as astrophysics and gravitation.

- Introduction to the Universe, Thermal Physics, Galaxies
- Astronomer, aerospace scientist, remote sensing scientist

PLANNING / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op only

Want a career with impact? We've got the plan. Tackle the environmental and social challenges facing our urban and rural areas. Learn about sustainable planning practices, designing effective transit systems, protecting natural areas, and more. You'll graduate ready to help communities create a healthy, prosperous, and sustainable future.

- Social Concepts in Planning, Transportation Planning and Analysis, Urban Planning Design and the Environment
- Decision Support and Geographic Information Systems, Environmental Planning and Management, Land Development Planning, Urban Design
- Environmental planner, land use planner, urban designer, transit planner

POLITICAL SCIENCE / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Let's get political! Explore political theory, power, global politics, and government in one of the world's top 200 politics and international studies programs. Learn how to navigate (and shape) the political terrain and develop the critical-thinking and creative problem-solving skills to land a job in advocacy, politics, or public service.

- Globalization, International Business, and Development: Topics in Politics and Business; Global Environmental Governance
- Politics and Business, Global Governance, Canadian Politics, International Relations
- Civil servant, director of global programs, project manager, senior consultant

PSYCHOLOGY / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

Get inside people's heads. Explore the intricacies of the brain in this internationally renowned program, consistently ranked among the best in Canada. You'll examine human behaviour through a variety of perspectives, including neuroscience, cognitive and clinical, developmental, industrial/ organizational, and social psychology – great preparation for further studies in medicine, speech pathology, or other health fields.

- Psychopathology, Advanced Data Analysis, Developmental Psychology
- Neuroscientist, child psychologist, psychiatrist

PUBLIC HEALTH / FACULTY OF APPLIED HEALTH SCIENCES (E, Bachelor of Public Health) Co-op available

Study with Canada's leading public health professors. Discover how understanding social, cultural, political, and geographical factors can help us tackle smoking, obesity, infectious diseases, and more. Aiming for grad school? Get a head start by applying for an accelerated master's degree in your third year.

- Gerontology, Health Informatics, Health Research
- Community relations officer, public health planner, policy developer

PURE MATHEMATICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Go way beyond basic arithmetic. Pure mathematics studies the boundary of math and pure reason, exploring the "why" and "why" of math. You'll cover the spectrum of mathematics – including algebra, number theory, analysis, geometry, and logic – and gain valuable problem-solving skills that can be applied in your career or graduate school.

- Fields and Galois Theory, Applied Complex Analysis, Differential Geometry
- Mathematical Finance, Mathematics/Teaching
- Data scientist, operations analyst, research and academia

RECREATION AND LEISURE STUDIES / FACULTY OF APPLIED HEALTH SCIENCES (E or M, Bachelor of Arts) Co-op available

It's about more than fun and games. Really. In one of North America's top-rated leisure departments, discover how to plan, manage, and deliver well-designed recreation programs that enhance the well-being of individuals and communities. Gain industry-related experience in your courses, through co-op, and in a 105-hour practicum.

- Program Management and Evaluation, Play, Creativity, and Child Development, Leisure and Social Justice
- Event Management, Tourism
- Community recreation programmer, program and support services manager, recreation manager
### INTERNATIONAL ADMISSION REQUIREMENTS 2021

NOTE: Minimum admission requirements are subject to change. For some programs the demand for places by qualified applicants exceeds the number of places available. Choose your major: see list on pages 20 to 31. AIF: Admission Information Form

### AMERICAN SYSTEM

High School Diploma with prerequisite courses completed at the AP level and/or Grade 12 senior academic level.

NOTE: min = minimum final grade, average = minimum final overall Grade 12 average.

### INTERNATIONAL BACCALAUREATE SYSTEM

Six total IB courses; at least three must be HL. Total scores exclude Diploma points. Subjects required for admission to specific programs should be HL whenever possible. Where there are more than three prerequisite subjects, SL courses will be accepted. For programs listing HL or SL English A, HL English B with min 5 will be acceptable. For programs listing HL or SL Mathematics: Analysis and Approaches, HL Applications and Interpretations, min 4. Total 28.

NOTE: HL = Higher Level, SL = Standard Level, min = minimum final grade, total = overall minimum grade total.

### PROGRAM (APPLY TO)/SYSTEM OF STUDY/ADDITIONAL REQUIREMENTS

<table>
<thead>
<tr>
<th>Program</th>
<th>System of Study</th>
<th>Additional Requirements</th>
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</thead>
<tbody>
<tr>
<td>Accounting and Financial Management</td>
<td>Co-op only.</td>
<td>Accounting and Financial Management Admissions Assessment (AFMAA) interview and trait assessment required.</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>Regular only.</td>
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</tr>
<tr>
<td>Honours Arts† (Waterloo, St. Jerome’s, Renison)</td>
<td>Regular and co-op.</td>
<td></td>
</tr>
<tr>
<td>Social Development Studies (Renison)</td>
<td>Regular only.</td>
<td></td>
</tr>
<tr>
<td>Honours Arts and Business†</td>
<td>Regular and co-op.</td>
<td>After applying, you may co-register through St. Jerome’s or Renison.</td>
</tr>
<tr>
<td>Computing and Financial Management</td>
<td>Co-op only.</td>
<td>AIF required.</td>
</tr>
<tr>
<td>Health Studies</td>
<td>Regular and co-op.</td>
<td></td>
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<tr>
<td>Kinesiology</td>
<td>Regular and co-op.</td>
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<tr>
<td>Public Health</td>
<td>Regular and co-op.</td>
<td></td>
</tr>
<tr>
<td>Recreation and Leisure Studies†</td>
<td>Regular and co-op.</td>
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</tbody>
</table>

### AMERICAN SYSTEM

- **Architecture**: Co-op only. AIF required. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.
- **Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design**: Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.
- **Environmental, Resources and Sustainability**: Regular and co-op.
- **Geography and Aviation**: Regular only. Program Briefing Session and Transport Canada Category 1 Aviation Medical Certification required.
- **Geomatics**: Regular and co-op.
- **International Development**: Regular only.
- **Knowledge Integration**: Regular only.
- **Planning**: Co-op only.
- **Business Administration (Laurier) and Computer Science (Waterloo)**: Double Degrees Co-op only. AIF required. Individual selection may vary.
- **Computer Science†**: Regular and co-op. AIF required. Individual selection may vary.
- **Mathematics†, Mathematics/Business Administration†, Mathematics/Financial Analysis and Risk Management**: Regular and co-op. AIF required. Individual selection may vary.
- **Mathematics/Chartered Professional Accountancy**: Co-op only. AIF required. Individual selection may vary.
- **Biotechnology/Chartered Professional Accountancy**: Co-op only. Environmental Science, Life Sciences†, Physical Sciences†, Science and Business Regular and co-op. Honours Science Regular only. Science and Aviation Regular only. Program Briefing Session, Transport Canada Category 1 Medical Certification required.

### ENVIRONMENT

- **Environment and Business**: Co-op only.
- **Environment, Resources and Sustainability; Geography and Environmental Management**: Regular and co-op.
- **Geography and Aviation**: Regular only. Program Briefing Session and Transport Canada Category 1 Aviation Medical Certification required.
- **Geomatics**: Regular and co-op.
- **International Development**: Regular only.
- **Knowledge Integration**: Regular only.
- **Planning**: Co-op only.
- **Business Administration (Laurier) and Computer Science (Waterloo)**: Double Degrees Co-op only. AIF required. Individual selection may vary.
- **Computer Science†**: Regular and co-op. AIF required. Individual selection may vary.
- **Mathematics†, Mathematics/Business Administration†, Mathematics/Financial Analysis and Risk Management**: Regular and co-op. AIF required. Individual selection may vary.
- **Mathematics/Chartered Professional Accountancy**: Co-op only. AIF required. Individual selection may vary.
- **Biotechnology/Chartered Professional Accountancy**: Co-op only. Environmental Science, Life Sciences†, Physical Sciences†, Science and Business Regular and co-op. Honours Science Regular only. Science and Aviation Regular only. Program Briefing Session, Transport Canada Category 1 Medical Certification required.
AMERICAN AND INTERNATIONAL BACCALAUREATE SYSTEMS

**AMERICAN SYSTEM**

Senior-Level Chemistry and Senior-Level Biology (preferably one at the AP level); Grade 12 Mathematics and Grade 12 English, min 75% in each. Average 85%.

One of: Honours Pre-Calculus, Grade 12 Calculus or AP Calculus, Senior-level Chemistry, Grade 12 English, and one of Biology or Physics, min 75% in each. Average 85%.

Grade 12 English, min 80%. Grade 12 Mathematics, min 75%. Average 85%.

Grade 12 English, min 75%. Average 85%.

Grade 12 English, min 80%. AP Calculus and Algebra (Pre-Calculus), min 80% in each. Average 88%.

Grade 12 English, min 80%. Average 85%.

Grade 12 English, min 75%. Average 85%.

Grade 12 English, min 75%, Average 85%.

AP Calculus exam, min 4, Algebra (Pre-Calculus). Grade 12 English, min 75%. Average 90%.

AP Calculus (or equivalent), AP Physics (or equivalent), and Algebra (Pre-Calculus), min 76% in each. Grade 12 English, min 80%. Plus two additional Grade 12 courses. Average 88%.

AP Calculus (or equivalent), AP Physics (or equivalent), Algebra (Pre-Calculus), Chemistry, Grade 12 English, and one other Grade 12 academic course, min 75% in each. Average 88% in the six required courses. SATs or ACTs required.

Grade 12 English, min 75%. Average 85%.

Grade 12 English, min 75%. Average 85%.

Grade 12 English and Grade 12 Mathematics, min 75% in each. Strongly recommended: one Grade 12 course in Physical or Environmental Science. Average 85%.

Grade 12 English and Grade 12 Mathematics, min 75% in each. Average 85%.

Grade 12 English and Grade 12 Mathematics, min 75% in each. Average 85%.

Grade 12 English, Grade 12 Mathematics, and Grade 12 Science, min 80% in each. Average 85%.

Grade 12 English, min 80%. Average 85%.

AP Calculus exam, min 4, Algebra (Pre-Calculus), Grade 12 English. Average 90%.

AP Calculus exam, min 4, Algebra (Pre-Calculus), Grade 12 English. Average 90%.

AP Calculus exam, min 4, Algebra (Pre-Calculus), Grade 12 English. Average 90%.

AP Calculus exam, min 4, Algebra (Pre-Calculus). Grade 12 English. Average 90%.

AP Calculus (preferred) or Grade 12 Calculus, min 75% (80% for Biotech/CPA). Grade 12 English, min 75% (80% for Biotech/CPA). Algebra (Pre-Calculus). Two of Biology, Chemistry, Physics, or Statistics. One other Grade 12 academic or AP course. Average 85%, including required courses; except for Biotechnology/Chartered Professional Accountancy: average 94%.

**INTERNATIONAL BACCALAUREATE SYSTEM**

Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min 4 in each. HL or SL Chemistry, and HL or SL Biology, min 4 in each. HL or SL English A, min 4, or HL English B, min 5. Total 28.

Mathematics: HL or SL Analysis and Approaches, min 4, HL or SL Chemistry, min 4. One of HL or SL Physics or Biology, min 4. HL or SL English A, min 4, or HL English B, min 5. Total 27.

Mathematics: HL or SL English A, min 4, or HL English B, min 5. Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min 4. Total 28.

Mathematics: HL or SL English A, min 4, or HL English B, min 5. Mathematics: HL or SL Analysis and Approaches, min 4. HL (recommended) or SL, min 4. Total 28.

Mathematics: Analysis and Approaches and Physics (HL recommended), min 4 in each. HL or SL English A, min 4. Total 32.

Mathematics: Analysis and Approaches 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. 6s and 7s recommended for competitive programs.

Mathematics: Analysis and Approaches 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. 6s and 7s recommended for competitive programs.

HL or SL English A, min 4, or HL English B, min 5. Total 27.

HL or SL English A, min 4, or HL English B, min 5. Total 27.

HL or SL English A, min 4, or HL English B, min 5. Total 27.

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Mathematics: Analysis and Approaches HL (recommended) or SL, min 4. Total 28.

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Mathematics: Analysis and Approaches HL (recommended) or SL, min 4. Total 28.
INTERNATIONAL ADMISSION REQUIREMENTS 2021

INDIAN SYSTEM

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.

Standard XII Applied Mathematics will be accepted for programs in the faculties of Environment and Applied Health Sciences.

NOTE:
Std XII = Standard XII, min = minimum final grade, overall = overall minimum final average.

BRITISH SYSTEM

General Certificate of Secondary Education or equivalent with passes in at least five unique subjects, three of which must be at the Advanced Level. General paper is not accepted for the English course requirements.

NOTE:
min = minimum final grade.

PROGRAM (APPLY TO)/SYSTEM OF STUDY/ADDITIONAL REQUIREMENTS

APPLIED HEALTH SCIENCES

Health Studies Regular and co-op.
Kinesiology Regular and co-op.
Public Health Regular and co-op.
Recreation and Leisure Studies Regular and co-op.

ACCOUNTING AND FINANCIAL MANAGEMENT

Accounting and Financial Management Admissions Assessment (AFMAA) Interview and trait assessment required.

GLOBAL BUSINESS AND DIGITAL ARTS

Regular only.

HONOURS ARTS

Honours Arts (Waterloo, St. Jerome’s Renison) Regular and co-op.

SOCIAL DEVELOPMENT STUDIES

Renison Regular only.

HONOURS ARTS AND BUSINESS

Regular and co-op. After applying, you may co-register through St. Jerome’s or Renison.

SOFTWARE ENGINEERING

Computing and Financial Management Co-op only. AIF required.

ARCHITECTURAL, BIO MEDICAL, CHEMICAL, CIVIL, COMPUTER, ELECTRICAL, ENVIRONMENTAL, GEOLOGICAL, MANAGEMENT, MECHANICAL, MECHATRONICS, NANOTECHNOLOGY, SYSTEMS DESIGN

Co-op only, AIF required. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.

ARCHITECTURAL, BIO MEDICAL, CHEMICAL, CIVIL, COMPUTER, ELECTRICAL, ENVIRONMENTAL, GEOLOGICAL, MANAGEMENT, MECHANICAL, MECHATRONICS, NANOTECHNOLOGY, SYSTEMS DESIGN

Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design Co-op only, AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.

SOFTWARE ENGINEERING

Software Engineering Co-op only. Experience developing well-structured, modular programs is required. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.

ENVIRONMENT AND BUSINESS

Environment and Business Co-op only.

ENVIRONMENT, RESOURCES AND SUSTAINABILITY; GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

Environment, Resources and Sustainability; Geography and Environmental Management Regular and co-op.

GEOMATICS

Geomatics Regular and co-op.

INTERNATIONAL DEVELOPMENT

International Development Regular only.

KNOWLEDGE INTEGRATION

Knowledge Integration Regular only.

PLANNING

Planning Co-op only.

BUSINESS ADMINISTRATION (LAWYER) AND COMPUTER SCIENCE (WATERLOO), BUSINESS ADMINISTRATION (LAWYER) AND MATHEMATICS (WATERLOO) — DOUBLE DEGREES

Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) — Double Degrees Co-op only, AIF required. Individual selection may vary.

MATHEMATICS

Computer Science Regular and co-op, AIF required. Individual selection may vary.

MATHEMATICS/BUSINESS ADMINISTRATION, MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT


MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY

Mathematics/Chartered Professional Accountancy Co-op only, AIF required. Individual selection may vary.

BIOTECHNOLOGY/CHARTERED PROFESSIONAL ACCOUNTANCY

Biotechnology/Chartered Professional Accountancy Co-op only, Environmental Science, Life Sciences, Physical Sciences, Science and Business Regular and co-op, Honours Science Regular only, Science and Aviation Regular only, Program Briefing Session, Transport Canada Category 1 Medical Certification required.

CFM
<table>
<thead>
<tr>
<th>INDIAN SYSTEM</th>
<th>BRITISH SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Std XII Chemistry, Std XII Biology, Std XII Mathematics, and Std XII English, min 70% in each. Overall 80% Std XII.</td>
<td>A-level Chemistry and A-level Biology, min B in each. A-level Mathematics, min C, English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII Mathematics, Std XII Chemistry, and Std XII English, min 70% in each. One of Std XII Physics or Std XII Biology, min 70%. Overall 80% Std XII.</td>
<td>A-level Mathematics, min C. A-level Chemistry, min B. One additional A-level course, min B. One of Physics or Biology at the GCSE, AS, or A-level, min B. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 75%. Std XII Mathematics, min 70%. Overall 80% Std XII.</td>
<td>A-level Mathematics, min C. Two other A-level courses, min B. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 70%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 75%. Std XII Mathematics, min 70%. Overall 85% Std XII.</td>
<td>A-level Mathematics, min B. and two other A-level courses, min B in each. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 75%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 70%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII Mathematics and one other Std XII academic course, min 90% in each. Std XII English, min 75%. All Std XII courses: min 85%,</td>
<td>A-level Mathematics and two other academic A-level courses, min A in each. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII Mathematics; Std XII Physics, min 70%; Std XII English, min 75%; and two other Std XII courses. Overall 80% Std XII.</td>
<td>A-level Mathematics and A-level Physics, min B in each. One additional A-level course, 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.</td>
</tr>
<tr>
<td>Std XII Mathematics, Std XII Chemistry, Std XII English, and one other Std XII course, min 70% in each. Overall 85% in the five required courses.</td>
<td>A-level Mathematics and A-level Physics, min A in each. One additional A-level course, min B. Chemistry (GCSE-level required, A-level recommended), min B. GCSE-level English, min B. A's and A*'s recommended for competitive programs.</td>
</tr>
<tr>
<td>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 five required courses.</td>
<td>A-level Mathematics and A-level Physics, min A in each. One additional A-level course, min B. Chemistry (GCSE-level required, A-level recommended), min B. GCSE-level English, min B. A's and A*'s recommended for competitive programs.</td>
</tr>
<tr>
<td>Std XII English, min 70%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, min 70%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English and Std XII Mathematics, min 70% in each. Strongly recommended: one of Std XII Physical or Environmental Science. Overall 80% Std XII.</td>
<td>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. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English and Std XII Mathematics, min 70% in each. Overall 80% Std XII.</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>Std XII English, min 70%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B’s and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII English, Std XII Mathematics, and one Std XII Science course, min 75% in each. Overall 80% Std XII.</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>Std XII English, min 75%. Overall 80% Std XII.</td>
<td>Three A-level courses, min two B's and one C. English at either the GCSE, AS, or A-level, min B.</td>
</tr>
<tr>
<td>Std XII Mathematics, min 90%. Std XII English, One other Std XII course, min 90%. All Std XII courses: min 85%.</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.</td>
</tr>
<tr>
<td>Std XII Mathematics, min 90%. Std XII English, One other Std XII course, min 90%. All Std XII courses:min 85%.</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.</td>
</tr>
<tr>
<td>Std XII Mathematics, min 85%. Std XII English, One other Std XII course, min 85%. All Std XII courses: min 80%.</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.</td>
</tr>
<tr>
<td>Std XII Mathematics, min 90%. Std XII English, One other Std XII course, min 90%. All Std XII courses: min 85%.</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.</td>
</tr>
<tr>
<td>Std XII Mathematics, min 70% (80% for Biotech/CPA); Std XII English, min 70% (80% for Biotech/CPA). Two of Std XII Biology, Std XII Chemistry, or Std XII Physics. One other Std XII course. Overall 80%, including required courses; except for Biotechnology/Chartered Professional Accountancy: overall 94%.</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 course, min B. GCSE-level English, min B. Higher grades required for Biotechnology/Chartered Professional Accountancy.</td>
</tr>
</tbody>
</table>
INTERNATIONAL ADMISSION REQUIREMENTS 2021

CARIBBEAN ADVANCED PROFICIENCY EXAMINATION
Caribbean Secondary Education Certificate with passes in at least five subjects, two of which must be at the Unit 2 level.

NOTES
Minimum admission requirements are subject to change. For some programs the demand for places by qualified applicants exceeds the number of places available. *Choose your major: see lists on pages 20 to 31.
AIF: Admission Information Form

CHINESE SYSTEM
Chinese High School Diploma. Completion of a minimum of five Senior 3 academic courses. Hui Kao and Gao Kao examination results. Final official documents verified by China Credential Verification (CHESSIC) are required from all Chinese National Curriculum students. If you are not writing the Gao Kao, you must submit a formal explanation to the Admissions Committee. For more information, refer to the program admission requirements on our website.

NOTES
min = minimum final grade.
overall = minimum overall final average.

APPLICATION TIPS
• If you’re from a high school outside of North America and not following the American, British, Caribbean Advanced Proficiency Examination, Chinese, Indian, or International Baccalaureate system of study, you should attach course descriptions for senior-level mathematics along with your 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.

www.uwaterloo.ca/future/documents

<table>
<thead>
<tr>
<th>PROGRAM (APPLY TO)/SYSTEM OF STUDY/ADDITIONAL REQUIREMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPLIED HEALTH SCIENCES</strong></td>
</tr>
<tr>
<td>Health Studies Regular and co-op.</td>
</tr>
<tr>
<td>Kinesiology Regular and co-op.</td>
</tr>
<tr>
<td>Public Health Regular and co-op.</td>
</tr>
<tr>
<td>Recreation and Leisure Studies* Regular and co-op.</td>
</tr>
<tr>
<td>Accounting and Financial Management Co-op only, Accounting and Financial Management Admissions Assessment (AFMAA) interview and portfolio assessment required.</td>
</tr>
<tr>
<td>Global Business and Digital Arts Regular only.</td>
</tr>
<tr>
<td>Honours Arts* (Waterloo, St. Jerome’s, Renison) Regular and co-op.</td>
</tr>
<tr>
<td>Social Development Studies (Renison) Regular only.</td>
</tr>
<tr>
<td>Honours Arts and Business* Regular and co-op. After applying, you may co-register through St. Jerome’s or Renison.</td>
</tr>
<tr>
<td><strong>ARTS</strong></td>
</tr>
<tr>
<td>Computing and Financial Management Co-op only. AIF required.</td>
</tr>
<tr>
<td><strong>ENGINEERING</strong></td>
</tr>
<tr>
<td>Architecture Co-op only. AIF required. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.</td>
</tr>
<tr>
<td>Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.</td>
</tr>
<tr>
<td><strong>SOFTWARE</strong></td>
</tr>
<tr>
<td>Software Engineering Co-op only. Experience developing well-structured, modular programs is required. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
</tr>
<tr>
<td>Environment and Business Co-op only.</td>
</tr>
<tr>
<td>Environment, Resources and Sustainability; Geography and Environmental Management Regular and co-op.</td>
</tr>
<tr>
<td>Geography and Aviation Regular only. Program Briefing Session and Transport Canada Category 1 Aviation Medical Certification required.</td>
</tr>
<tr>
<td>Geomatics Regular and co-op.</td>
</tr>
<tr>
<td>International Development Regular only.</td>
</tr>
<tr>
<td>Knowledge Integration Regular only.</td>
</tr>
<tr>
<td>Planning Co-op only.</td>
</tr>
<tr>
<td><strong>MATHEMATICS</strong></td>
</tr>
<tr>
<td>Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) — Double Degrees Co-op only. AIF required.</td>
</tr>
<tr>
<td>Computer Science* Regular and co-op. AIF required.</td>
</tr>
<tr>
<td>Mathematics/Chartered Professional Accountancy Co-op only. AIF required.</td>
</tr>
<tr>
<td><strong>SCIENCE</strong></td>
</tr>
<tr>
<td>Biotechnology/Chartered Professional Accountancy Co-op only. Environmental Science, Life Sciences*, Physical Sciences*, Science and Business Regular and co-op. Honours Science Regular only. Science and Aviation Regular only. Program Briefing Session, Transport Canada Category 1 Medical Certification required.</td>
</tr>
</tbody>
</table>

uwaterloo.ca/future/admissions
<table>
<thead>
<tr>
<th>CARIBBEAN ADVANCED PROFICIENCY EXAMINATION</th>
<th>CHINESE SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit 2 Chemistry and Unit 2 Biology, min 2 in each. Mathematics and English at the CXC, Unit 1, or Unit 2 level, min 2 in each.</td>
<td>Senior 3 Chemistry, Senior 3 Biology, Senior 3 Mathematics, and Senior 3 English, min 75% in each. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Mathematics and Unit 2 Chemistry, min 2 in each. One of Physics or Biology at the CXC, Unit 1, or Unit 2 level, min 2. English at the CXC, Unit 1 or Unit 2 level, min 2.</td>
<td>Senior 3 Chemistry, Senior 3 Mathematics, and Senior 3 English, min 75% in each. One of Physics or Biology at the Senior 3 level, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Mathematics, min 2. One other Unit 2 course, min 3. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 80%. Senior 3 Mathematics, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and min 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 course, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2.</td>
<td>Senior 3 English and Senior 3 Mathematics, min 80% in each. Overall 88% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 2.</td>
<td>Senior 3 English, min 80%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2.</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. English at the CXC, Unit 1, or Unit 2 level, min 2. One other Unit 1 or Unit 2 academic course, min 2.</td>
<td>Senior 3 Mathematics, Senior 3 Physics, min 76%. Senior 3 English, min 80%. Overall 88%.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. Chemistry and English (CXC required, CAPE recommended), min 2 in each. One other Unit 1 or Unit 2 academic course, min 2.</td>
<td>Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min 75% in each. One other Senior 3 academic course, min 75%. Overall 88% in five required courses.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. Chemistry and English (CXC required, CAPE recommended), min 2 in each. One other Unit 1 or Unit 2 academic course, min 2. Mostly 1's recommended for competitive programs.</td>
<td>Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min 75% in each. One other Senior 3 academic course, min 75%. Overall 88% in five required courses.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Mathematics and one other Unit 2 course, min 2 in one and 3 in the other, English at the CXC, Unit 1, or Unit 2 level, min 3. Strongly recommended: one Unit 2 course in Physical or Environmental Science.</td>
<td>Senior 3 English and Senior 3 Mathematics, min 75% in each. Strongly recommended: Senior 3 course in Physical or Environmental Science. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Mathematics and one other Unit 2 course, min 2 in one and 3 in the other, English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English and Senior 3 Mathematics, min 75% in each. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.</td>
<td>Senior 3 English, min 75%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Mathematics and Unit 2 Science, min 2 in each. English at the CXC, Unit 1, or Unit 2 level, min 2.</td>
<td>Senior 3 English, Senior 3 Mathematics, and one Senior 3 Science, min 80% in each. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 2.</td>
<td>Senior 3 English, min 80%. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.</td>
<td>Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.</td>
</tr>
<tr>
<td>Unit 2 Pure Mathematics, min 3. English at the CXC, Unit 1, or Unit 2 level, min 2. Two of Biology, Chemistry, Environmental Science, or Physics (one must be at the Unit 2 level, min 2). Higher grades required for Biotechnology/Chartered Professional Accountancy.</td>
<td>Senior 3 Mathematics, min 75% (80% for Biotech/CPA). Senior 3 English, min 75% (80% for Biotech/CPA). Two of Senior 3 Biology, Senior 3 Chemistry, or Senior 3 Physics. One other Senior 3 academic course. Overall 85% in Senior 3, including required courses; except for Biotechnology/Chartered Professional Accountancy: overall 94%.</td>
</tr>
</tbody>
</table>
APPLY TO WATERLOO

Let’s get started.

uwaterloo.ca/future/apply

Why make things complicated? Simply tear off the checklist on page 49 and complete each step by the deadline. You’ll be a Warrior in no time. If you have any questions, flip over the checklist to find a list of key contacts.

HOW DO I GET STARTED?
Your first stop is the Ontario Universities’ Application Centre (OUAC) website: ouac.on.ca. Complete the 105 application and make arrangements to have your high school send us your transcripts. All of your official documents, including transcripts and English language test results, must be sent directly from the issuing institution or testing authority.

uwaterloo.ca/future/documents

WHEN ARE MY APPLICATION AND SUPPORTING DOCUMENTS DUE?

<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 2021</td>
<td>February 1, 2021</td>
<td>February 19, 2021</td>
</tr>
<tr>
<td>EXCEPTION</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Conditional Admission to Pharmacy</td>
<td>February 1, 2021</td>
<td>April 2, 2021 (AIF: March 1, 2021)</td>
</tr>
</tbody>
</table>

WHAT ABOUT 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 four years immediately before beginning your studies at Waterloo.

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>OPTION 2</th>
<th>OPTION 3</th>
<th>OPTION 4</th>
<th>OPTION 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>INTERNET-BASED TOEFL</td>
<td>IELTS</td>
<td>CAEL</td>
<td>PTE (ACADEMIC)</td>
<td>ENGLISH FOR ACADEMIC SUCCESS</td>
</tr>
<tr>
<td>90 overall, 25 writing, 25 speaking</td>
<td>6.5 overall, 6.5 speaking, 6.0 listening</td>
<td>70 overall, 70 speaking</td>
<td>63 overall, 65 speaking</td>
<td>75% overall in 400 levels, 75% oral, 75% writing</td>
</tr>
<tr>
<td>6.5 overall, 6.5 speaking, 6.0 listening</td>
<td>70 writing, 70 speaking</td>
<td>65 writing, 65 speaking</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Q&A

WHAT’S AN ADMISSION INFORMATION FORM?
The Admission Information Form (AIF) lets you tell us about your extracurricular activities, explain extenuating circumstances which may have affected your grades, and brag a little about how great you are! We often use the AIF in addition to your grades to make admission decisions. For many programs an AIF is required, and we recommend all applicants submit an AIF.

WILL MY AP OR IB COURSES BE CONSIDERED FOR TRANSFER CREDIT?
Transfer credits will be considered for Advanced Placement (AP) and International Baccalaureate (IB) courses if you’re applying to programs in the faculties of Applied Health Sciences, Arts, Environment, Mathematics, or Science, or the School of Architecture.*

Note: *Results must be sent directly from the college board or the IBO.

WHAT IF MY ENGLISH LANGUAGE TEST SCORES ARE TOO LOW?
If you’re academically admissible but don’t quite meet our English language requirements, you may be offered conditional admission through Waterloo’s English Language for Academic Studies (ELAS) or Bridge to Academic Success in English (BASE). Learn more about these programs on page 17.
Estimate your total first-year costs using our online budget calculator. Our website also offers detailed information on scholarships and faculty-specific awards.

uwaterloo.ca/future/financing

**TUITION AND SCHOLARSHIPS**

**ENTRANCE SCHOLARSHIPS**

<table>
<thead>
<tr>
<th>Scholarship</th>
<th>Amount</th>
<th>Admission Average</th>
</tr>
</thead>
<tbody>
<tr>
<td>Merit Scholarship</td>
<td>$1,000</td>
<td>85-89.9%</td>
</tr>
<tr>
<td>President’s Scholarship</td>
<td>$2,000</td>
<td>90-94.9%</td>
</tr>
<tr>
<td>President’s Scholarship of Distinction</td>
<td>up to $5,000***</td>
<td>95%+</td>
</tr>
<tr>
<td>International Student Entrance Scholarships</td>
<td>$10,000</td>
<td>Awarded based on academic performance, contest or assignment scores, and Admission Information Form submissions</td>
</tr>
</tbody>
</table>

**ENTRANCE SCHOLARSHIPS**

- **$1,000 Merit Scholarship**: 85-89.9% admission average
- **$2,000 President’s Scholarship**: 90-94.9% admission average
- **$5,000 President’s Scholarship of Distinction**: 95%+ admission average
- **$10,000 International Student Entrance Scholarships**: Awarded based on academic performance, contest or assignment scores, and Admission Information Form submissions

**94%** of international students received an entrance scholarship in fall 2019

**TUITION FEES**

**FOR TWO ACADEMIC TERMS***

<table>
<thead>
<tr>
<th>Program/Faculty</th>
<th>International Tuition (Study Permit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Financial Management**, Applied Health Sciences, Arts</td>
<td>$46,900</td>
</tr>
<tr>
<td>Architecture</td>
<td>$59,700</td>
</tr>
<tr>
<td>Biotechnology/Chartered Professional Accountancy</td>
<td>$42,900</td>
</tr>
<tr>
<td>Business Administration (Laurier) and Mathematics (Waterloo) Double Degree</td>
<td>$45,500</td>
</tr>
<tr>
<td>Computer Science, Business Administration (Laurier) and Computer Science (Waterloo) Double Degree</td>
<td>$61,300</td>
</tr>
<tr>
<td>Computing and Financial Management**</td>
<td>$44,700</td>
</tr>
<tr>
<td>Engineering, Software Engineering</td>
<td>$61,300</td>
</tr>
<tr>
<td>Environment</td>
<td>$41,100</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>$48,100</td>
</tr>
<tr>
<td>Mathematics, Mathematics/Financial Analysis and Risk Management, Mathematics/Business Administration</td>
<td>$45,500</td>
</tr>
<tr>
<td>Mathematics/Chartered Professional Accountancy</td>
<td>$44,100</td>
</tr>
<tr>
<td>Science</td>
<td>$42,700</td>
</tr>
</tbody>
</table>

**Notes:** Amounts listed include incidental fees. Co-op fee of $734/term also applies. See the website for details. **Tuition is significantly higher in your upper years.*** Fees based on 2020-2021 tuition rates.

**EARN WHILE YOU LEARN**

Co-op students earn $8,400-$14,400+ in their first work term in Canada. These co-op earnings can go a long way to helping pay tuition fees and living expenses. Alternatively, you may choose to work part-time on your study visa.* Our provincial minimum wage is $14 per hour.

*Exceptions apply. Visa details are available at www.canada.ca. Co-op students must have a work permit.

**LIVING EXPENSES**

**RESIDENCE**
From $6,008 (traditional-style) to $7,995 (suite-style).

**MEAL PLAN**
From $4,904 (lite) to $5,704 (hearty).

**PERSONAL EXPENSES**
$3,320 on average ($415/month). Expenses may include phone, laundry, and entertainment; depends on your lifestyle.

**BOOKS AND SUPPLIES**
Most programs estimate $2,288 ($4,100 for Architecture students).
Chart your path.

Getting to class is a walk in the park on our pedestrian-friendly campus. Enjoy gardens, patios, and creekside benches in the summer, or dart through tunnels and overpasses in the winter. No building on campus is ever more than a 20-minute walk away.

ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

We acknowledge that the University of Waterloo is located on the traditional territory of the Neutral, Anishnaabeg, and Haudenosaunee people. The University is situated on the Haldimand Tract, the land promised to the Six Nations that includes 10 kilometres on each side of the Grand River.

VISIT US

Guided tours are available and can be booked through our website.

uwaterloo.ca/future/visit

3 satellite campuses in Cambridge, Kitchener, and Stratford

TOP 5 in the world for no poverty, zero hunger, and life below water (Times Higher Education University Impact Rankings, 2020)
IMPORTANT CONTACTS

GENERAL QUESTIONS
519-888-4567, ext. 43614
askus@uwaterloo.ca

APPLICATION QUESTIONS
myapplication@uwaterloo.ca

PROGRAM-RELATED QUESTIONS
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

OTHER WATERLOO CONTACTS


APPLICATION CHECKLIST

Your guide to full-time undergraduate studies at Waterloo.

uwaterloo.ca/future/apply

1. ORDER BROCHURES
   Download detailed information about one or more programs.
   uwaterloo.ca/future/order

2. APPLY ONLINE
   Apply to Waterloo and our University Colleges (Renison and St. Jerome’s) through the Ontario Universities’ Application Centre.
   ouac.on.ca

3. LOG IN TO QUEST
   Quest is our student information system. We’ll email you details about getting started. Add myapplication@uwaterloo.ca and askus@uwaterloo.ca to your contacts so you don’t miss our emails!

4. SEND US YOUR DOCUMENTS
   In addition to your official transcripts, we may require other documentation (e.g., proof of English-language instruction).
   uwaterloo.ca/future/documents

5. COMPLETE YOUR ADMISSION INFORMATION FORM
   Some programs may also require an interview, portfolio, or other elements. Check the admission charts for details.

6. WAIT TO HEAR FROM US
   To help pass the time, check out Beyond Ideas for tips from Waterloo students about choosing a university program, admissions, and more!
   uwaterloo.ca/beyond-ideas