

You + Waterloo

Viewbook 2027

UNIVERSITY OF
WATERLOO



Welcome to your next chapter, Warrior

You're getting ready to embark on your biggest adventure yet, and you're looking for the right place to make it happen.

A place where your curiosity can thrive.

A place to find your passion through the world's leading co-op program.

A place to unleash your entrepreneurial spirit.

Discover your limitless potential in a community that supports your bright future.

Let's explore the story of you and Waterloo. 





5 reasons to choose Waterloo



Love a challenge? Us too. Since the beginning, Waterloo has been a place where you can bring your passion, grit, and determination to explore and innovate – and have fun doing it. With our long-standing industry partnerships, focus on real-world solutions, and relentless spirit of entrepreneurship, there's a reason we're one of Canada's top universities.

Ontario

uwaterloo.ca/future/rankings

OTTAWA

TORONTO

WATERLOO

Acknowledgement of traditional territory

The University of Waterloo acknowledges that much of our work takes place on the traditional territory of the Neutral, Anishinaabeg, and Haudenosaunee peoples. Our main campus is situated on the Haldimand Tract, the land granted to the Six Nations that includes six miles on each side of the Grand River. Our active work toward reconciliation takes place across our campuses through research, learning, teaching, and community building, and is co-ordinated within the Office of Indigenous Relations. [W](#)

1



**Home to
the world's
leading co-op
program**

**A top 100
university in
the world**

Earn a highly reputable degree at Waterloo. We're ranked 97th in the world* by more than 55,000 researchers and scholars from around the globe, and we've been the number one comprehensive research university in Canada for the past 18 years.**

**Times Higher Education World Reputation Rankings 2025*

***Research Infosource 2025*

2

Gain access to over 8,000 employers in more than 70 countries and graduate ready to step into your career. Test out jobs, build your résumé, and explore your interests in up to six co-op work terms. Plus, you can earn between \$9,600 and \$23,400 (CAD)* per work term.

**All dollar amounts listed throughout are in Canadian dollars unless otherwise noted*

3

**Canada's
innovation and
entrepreneurship university**

Surrounded by game-changing ideas and people, it's easy to feel inspired at Waterloo. We're number 18 in the world for undergraduate founders and entrepreneurs, with 527 companies launched and \$14 billion USD raised in capital over the last decade.* At Waterloo, learning and innovation go hand in hand.

**PitchBook 2025*



5



4

**Exceptional
graduate
success rate**

Two years after graduation, over 94 per cent of Waterloo graduates are employed and working in jobs related to skills they developed at university. Bonus: they're also earning more on average than other Ontario grads!*

**Ontario University Graduate Survey of 2022 graduates*

**One of
the most
actively
engaged
student
communities**

In first year, 68 per cent of Waterloo students reported joining extracurriculars (higher than the average at other Canadian universities*). With more than 200 student-run clubs covering everything from academics to culture to sports, there's something for everyone. Plus, the city is buzzing with energy, thanks to one of the youngest populations in Canada. **W**

**National Survey of Student Engagement 2023*



Find your Warrior community

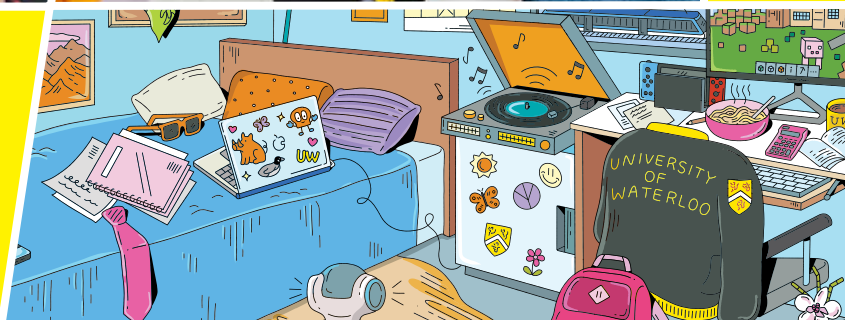




Learn more by
following us
on Instagram



@UofWaterlooFuture



In Waterloo's co-op program, you'll add up to two years of paid professional work experience to your résumé, test drive up to six different careers, and build a world-class professional network. You'll be future-ready and prepared to step into your dream job when you graduate. **W**

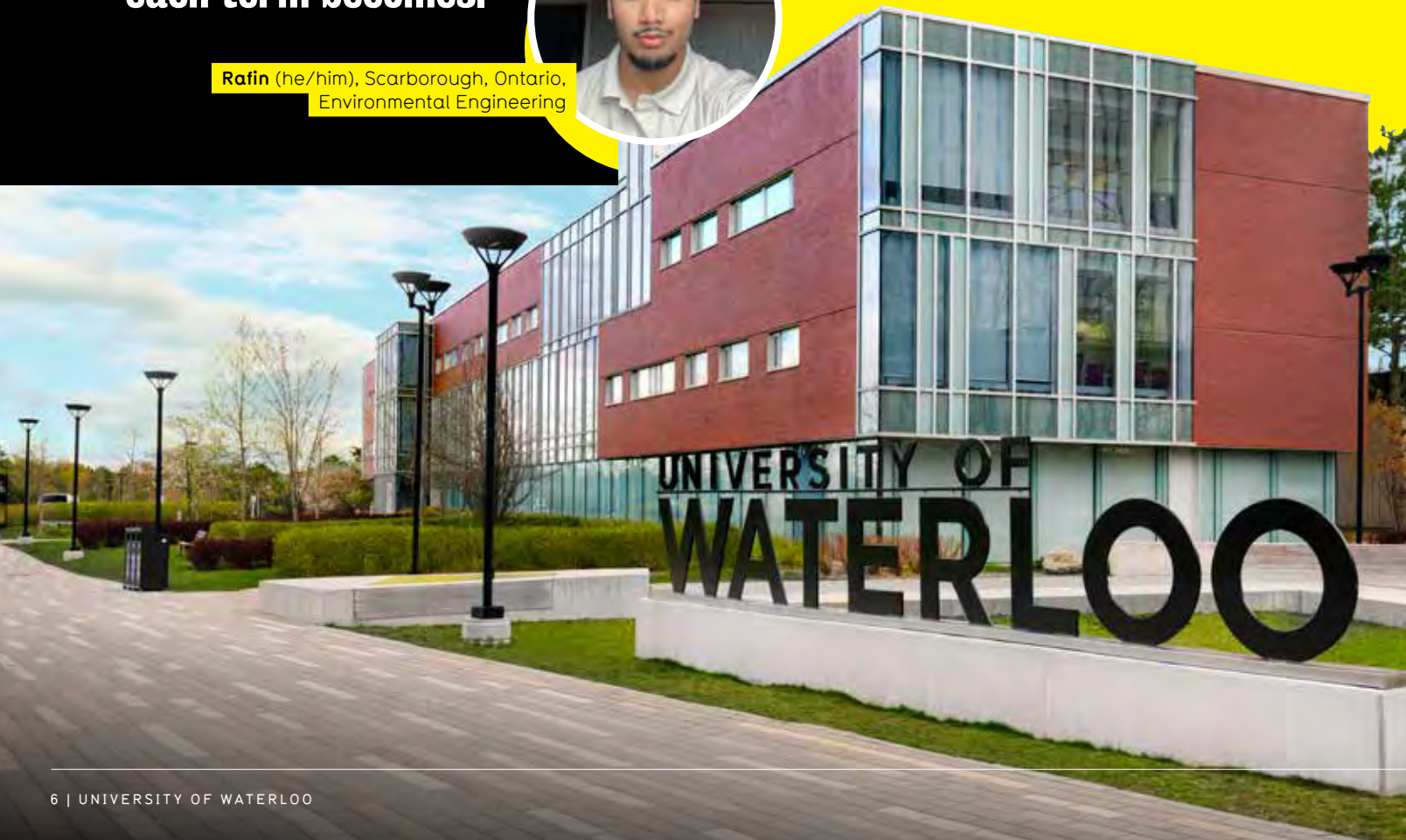
“Co-op is about figuring out what kind of work excites you and what type of environment helps you grow. The more curious and involved you are, the more rewarding each term becomes.”

Rafin (he/him), Scarborough, Ontario,
Environmental Engineering



World's leading co-op program

uwaterloo.ca/future/co-op



How does co-op at Waterloo work?

In co-op, you'll typically alternate between four months of full-time study and four months of full-time, paid work. You'll have a dedicated co-op advisor to support you throughout your journey.

Before each work term

- > Update your résumé
- > Apply to jobs
- > Interview with employers

On the job

- > Gain real-world skills and work experience
- > Adapt to different workplaces
- > Take professional development courses
- > Grow in confidence, knowledge, and certainty about your future path

Study. Work. Repeat.

Your co-op schedule depends on your program. Here are three common study/work sequences.

Year	Term	Example 1	Example 2	Example 3
1	Fall	Study	Study	Study
	Winter	Study	Work	Study
	Spring	Off	Study	Work
2	Fall	Study	Work	Study
	Winter	Work	Study	Work
	Spring	Study	Work	Study
3	Fall	Work	Study	Work
	Winter	Study	Work	Study
	Spring	Work	Study	Work
4	Fall	Study	Work	Study
	Winter	Work	Study	Work
	Spring	Work	Work	Work
5	Fall	Study	Study	Study
	Winter	Study	Study	Study

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



23,800+

co-op work terms (2025)

Waterloo's co-op program has twice as many students as the next two largest Canadian co-op programs combined

\$15.2K

average earnings per co-op work term (2024/2025)

On average, you can earn between \$9,600-\$23,400 per work term depending on your year, program, role, and employer.

8,000+

employers in more than 70 countries

93%

of Waterloo co-op grads are employed six months after graduation

(Ontario University Graduate Survey of 2022 graduates)



Where Canada's future founders begin

Join 1,200+ founders and counting

Are you ready to explore, build, or grow your big idea? No matter what stage of the process you're in – from dreaming to doing – our world-renowned innovation ecosystem unlocks your entrepreneurial potential. With unlimited access to free resources, you have everything you need to take your venture to the next level: coaching, mentorship, funding, for-credit courses and programs, workshops, pitch competitions, creator spaces, high-end tools and equipment – and, most importantly, people who believe in your potential.

uwaterloo.ca/future/creator

Support for every student

Everyone's path is different, and our specialized resources are with you all the way.

Velocity, our flagship entrepreneurship ecosystem, helps you grow your venture at every stage and level of experience.

United College supports Black entrepreneurs through the Lanterna Black Innovation Hub, Indigenous entrepreneurs through the FlintHub incubator, and social innovators through the GreenHouse social impact incubator.

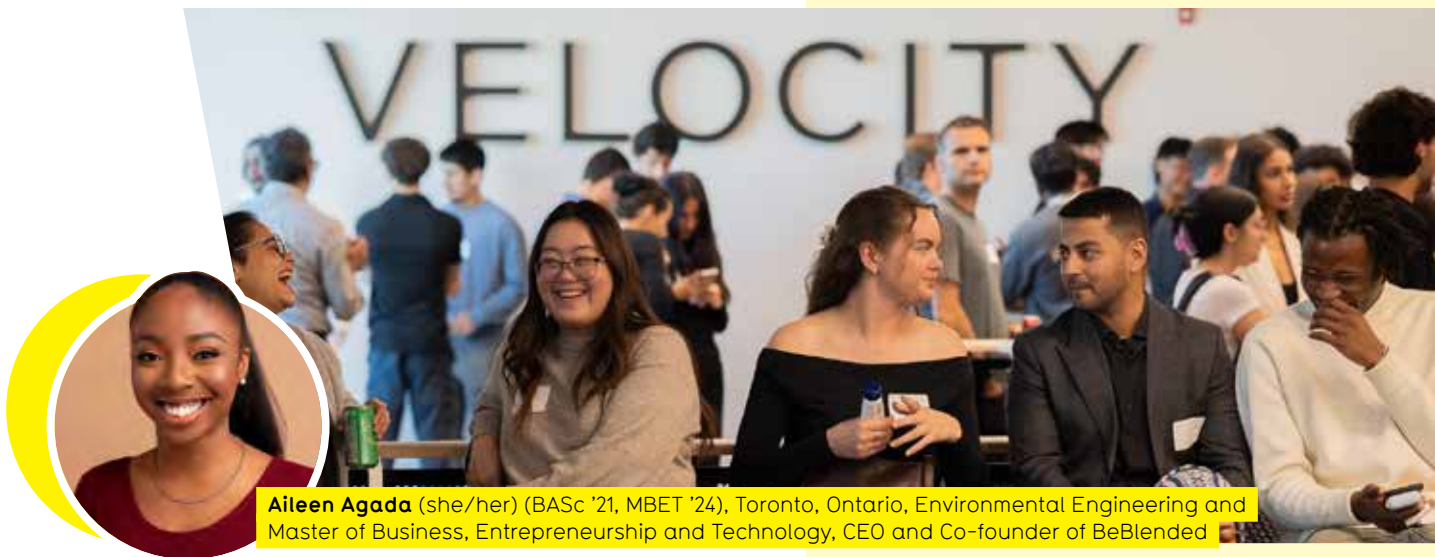
Grebel Peace Incubator helps you build a more just and peaceful world.

The Problem Lab will guide you through your first steps if you're just getting started.



#18 in the world for
undergraduate
startup founders
(PitchBook 2025)

#7 in North America
for top tech talent
(Waterloo Region)
(CBRE 2025)



Aileen Agada (she/her) (BASc '21, MBET '24), Toronto, Ontario, Environmental Engineering and Master of Business, Entrepreneurship and Technology, CEO and Co-founder of BeBlended

It all started with an innocent question while Aileen was on a co-op term in Ottawa: "Where can I get my hair done?" The Environmental Engineering student's search for a nearby hairstylist who knew how to work on afro-textured hair turned into a much bigger quest – a journey to entrepreneurship and the launch of her tech startup, BeBlended, an online marketplace that connects Black women to hairstylists worldwide. 🌍

Creator-owned

intellectual property
policy means your great
ideas belong to you

A guaranteed place for you

uwaterloo.ca/future/residence

Living in residence puts you in the middle of the action. Thrive in an environment that fits your needs while making friends and memories that last long after graduation.

100%

guaranteed spot in our on-campus residences for all first-year students

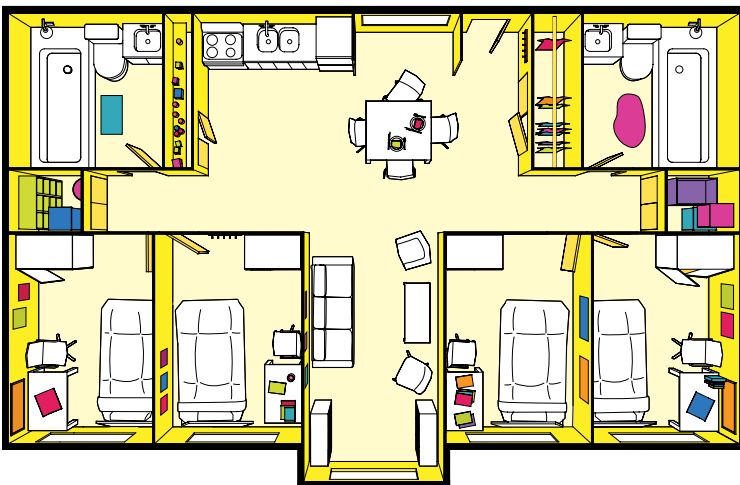
24/7

supports, from front desk assistants to residence staff like your don

Rank your preferences for residence community and room type.

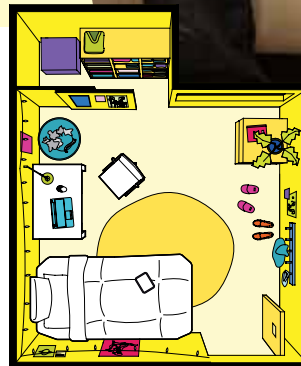
Sample room floor plans*

SUITE-STYLE ROOMS

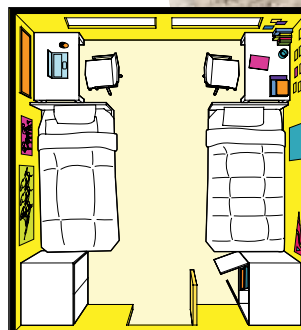


*The sample room floor plans are intended to give you an idea of what your residence room could look like. For specific room layouts, dimensions, and inclusions, visit our website.

SINGLE ROOM



DOUBLE ROOM





Live and learn with like-minded peers

Apply to a Living Learning Community to be grouped with students in your program or peers who share your passion.

Food options for everyone

40+ on-campus eateries make it quick and affordable to enjoy fresh food and drinks, with halal, vegan, and made-to-order options if you have allergies or dietary restrictions.

Looking for a smaller community?

The University Colleges (Conrad Grebel, Renison, St. Jerome's, and United), are small, tight-knit communities that offer residence and academic programs – right on campus.

- › Participate in college-wide activities like dinners, movie nights, workshops, and more.
- › Enjoy all-inclusive meal plans steps away from your room.
- › Your neighbours are your classmates. Classes hosted at University Colleges are often capped at 50 students or fewer. 





200+

academic,
supportive, social,
religious, political,
sports, and
cultural student-
run clubs to join



2,500+

fitness classes each
year, including yoga,
cycling, and Zumba

Live your best Warrior life

Waterloo Warriors love to explore outside the classroom. You'll find caring communities that support you through new experiences and fun challenges when you join clubs, events, activities, and more.

As home to one of the largest university recreation programs in Canada, we have lots of ways to get moving, from intramural leagues to sports clubs to weekly fitness classes.

uwaterloo.ca/future/student-life



Varsity teams

◆ co-ed ■ men ● women

Badminton ◆
Baseball ■
Basketball ■ ●
Cheerleading ◆
Cross Country ■ ●
Curling ■ ●
Fencing ■ ●

Field Hockey ●
Figure Skating ◆
Football ■
Golf ■ ●
Hockey ■ ●
Nordic Skiing ■ ●
Rowing ■ ●

Rugby ■ ●
Soccer ■ ●
Squash ■ ●
Swimming ■ ●
Tennis ■ ●
Track and Field ■ ●
Volleyball ■ ●



Find support at every step

At Waterloo, we're committed to your success. Hundreds of people across campus are ready to help you achieve your goals. From mental health and well-being to academic and career success, there's support along the way. 

uwaterloo.ca/future/support



100+

**Campus Wellness staff
members to support you**



**Not sure what
to study? Scan
to take our quiz.**

uwaterloo.ca/future/quiz



Programs

Use the program descriptions and admission charts to find a program that matches your interests and academic strengths. Every program has specific course and grade requirements you'll need to meet, so take your time, do your research, and always check the asterisks!

uwaterloo.ca/future/programs

Faculty of Arts / Pages 18-21

ENTRY PROGRAMS

- > Accounting and Financial Management
- > Computing and Financial Management
- > Global Business and Digital Arts
- > Honours Arts*
- > Honours Arts and Business*
- > Sustainability and Financial Management

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

MAJORS

- > Anthropology
- > Classical Studies (2 majors)
- > Communication Studies (2 majors)
- > Economics
- > English (4 majors)
- > Fine Arts (2 majors)
- > French
- > Gender and Social Justice
- > History
- > Legal Studies
- > Liberal Studies
- > Medieval Studies
- > Music
- > Peace and Conflict Studies
- > Philosophy
- > Political Science
- > Psychology
- > Religion, Culture, and Spirituality
- > Sexualities, Relationships, and Families
- > Social Development Studies
- > Sociology
- > Theatre and Performance

PROFESSIONAL DEGREE

- > Social Development Studies and Bachelor of Social Work Double Degree

Faculty of Engineering / Pages 22-25

ENTRY PROGRAMS

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

Faculty of Environment / Pages 26-29

ENTRY PROGRAMS

- > Climate and Environmental Change
- > Environment and Business
- > Environment, Resources and Sustainability
- > Geography and Aviation
- > Geography and Environmental Management
- > Geospatial Data Science
- > Planning
- > Sustainability and Financial Management

Faculty of Health / Pages 30-33

ENTRY PROGRAMS AND MAJORS

- > Health Sciences
- > Kinesiology
- > Public Health
- > Recreation and Leisure Studies*
 - Recreation, Leadership, and Health
 - Sport and Recreation Management
 - Therapeutic Recreation

*Select your major when you apply.
You'll start your selected major in first year.

Faculty of Mathematics / Pages 34-37

ENTRY PROGRAMS AND MAJORS

- > Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
- > Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
- > Computer Science
- > Computing and Financial Management
- > Mathematics*
 - Actuarial Science
 - Applied Mathematics
 - Applied Mathematics with Scientific Computing and Scientific Machine Learning
 - Biostatistics
 - Combinatorics and Optimization
 - Computational Mathematics
 - Data Science
 - Information Technology Management
 - Mathematical Economics
 - Mathematical Finance
 - Mathematical Optimization
 - Mathematical Physics
 - Mathematical Studies
 - Mathematics/Teaching
 - Pure Mathematics
 - Statistics
- > Mathematics/Business Administration
- > Mathematics/Chartered Professional Accountancy
- > Mathematics/Financial Analysis and Risk Management
- > Software Engineering

*Select your major at the end of your first year or later.

Considering graduate school?
Explore our 190+ programs.

uwaterloo.ca/future/graduate-programs

Faculty of Science / Pages 38-41

ENTRY PROGRAMS AND MAJORS

- > Biomedical Sciences
- > Environmental Sciences
- > Honours Science
- > Life Sciences*
 - Biochemistry
 - Biology
 - Psychology
- > Physical Sciences*
 - Biological and Medical Physics
 - Chemistry
 - Earth Sciences
 - Materials and Nanosciences
 - Mathematical Physics
 - Medicinal Chemistry
 - Physics
 - Physics and Astronomy
- > Science and Aviation
- > Science and Business
- > Science and Financial Management

PROFESSIONAL DEGREES

- > Medical Sciences (Waterloo) and Doctor of Medicine (St. George's)
- > Optometry
- > Pharmacy



Interested in customizing
your degree with minors,
certificates, and diplomas?



uwaterloo.ca/future/customize

Business at Waterloo

Where ambition becomes opportunity

Whether you dream about being an entrepreneur, working for a global brand, or helping a startup grow, you'll build the future-focused skills to succeed in any role. Find passionate peers, world-class teachers, exciting co-op opportunities, and an entrepreneurial culture, all at Waterloo. 

uwaterloo.ca/future/business



TOP 10

**in Canada for
business and economics**
*(Times Higher Education
World University
Subject Rankings 2026)*

TOP 5

**in Canada
for accounting
and finance**
*(QS World University
Subject Rankings 2026)*



Meng knew Accounting and Financial Management (AFM) would give her the tools to turn big ideas into reality. She began her career in investment banking, and then helped launch Uber Eats, scaling it across North America and securing major deals with McDonald's and Starbucks. Today, she's applying her AFM expertise to build Our Little Treasures, a sustainable baby clothing brand that's creating real impact.

Meng Wang (she/her) (BAFM '12), Toronto, Ontario, Accounting and Financial Management, Founder of Our Little Treasures



Driven by employer needs

Designed with real-world input from employers, this is where you'll gain the edge that sets you apart. In addition to our world-class traditional business programs, we offer innovative "+ business" programs that give you two areas of expertise: a deep knowledge of a specific subject (your major) plus essential skills in marketing, finance, accounting, entrepreneurship, and more.

Sharpen your entrepreneurial edge

Build the skills to innovate, launch, and lead. No matter what program you study, with the Conrad School of Entrepreneurship and Business you can:

- › take hands-on courses in business, entrepreneurship, and technology
- › add an Entrepreneurship Minor to your degree
- › gain experience through specialized entrepreneurial co-op opportunities



Co-op employers

Recent business co-op students have worked for employers such as:

- › TD Insurance
- › PepsiCo
- › PwC
- › EY
- › Scotiabank

Business programs

- › Accounting and Financial Management
- › 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
- › Science and Business
- › Science and Financial Management
- › Sport and Recreation Management
- › Sustainability and Financial Management





“My program gave me a holistic education that empowered me with the confidence, knowledge, and skills to thrive in both my personal and professional life.”

Lowenna Barungi (she/her) (BA '24), Kampala, Uganda, Honours Arts and Business, Communication Studies major, Marketing Co-ordinator at Smith + Andersen



Faculty of Arts

Arts at the frontier

Chart your own course. Choose from six entry programs and 28 majors, and engage with diverse perspectives in a community that encourages you to think deeper, develop insight, and build resilience. With co-op, complementary minors, technical certificates, global experiences, and hands-on learning, you'll graduate with the skills to navigate – and lead – a changing world. **W**

uwaterloo.ca/future/arts





85+

partner universities
offer international
study exchanges
to Arts students

82%

of Arts students
choose co-op

“Arts’ variety of courses and opportunities helped me engage with ideas from multiple perspectives and taught me to be a lifelong learner – open, curious, and always inviting opportunities to expand my world view.”

Kirsten Mosey (she/her) (BA '22), Richmond Hill, Ontario, Honours Arts and Business, Political Science major, Policy Officer in the Non-Proliferation and Disarmament Division at Global Affairs Canada



Co-op employers

Recent Arts co-op students have worked for employers such as:

- › KPMG
- › Canada Revenue Agency (CRA)
- › Wealthsimple
- › Workplace Safety and Insurance Board (WSIB)
- › Desire2Learn (D2L)

LEGEND

* Only offered at the University of Waterloo E = Entry-level program: apply directly through the Ontario Universities' Application Centre (OUAC)
M = Major: subject of major interest; apply through an entry-level program ● Sample courses ▲ Specializations ■ Career possibilities ★ Co-op possibilities

Arts programs

Entry programs

* ACCOUNTING AND FINANCIAL MANAGEMENT / WITH SCHOOL OF ACCOUNTING AND FINANCE

(E, Bachelor of Accounting and Financial Management) Co-op mandatory

Use data and tech to make bold business decisions. Whether you're launching a startup or working on Bay Street, AFM shows you how to leverage AI and tech in accounting and finance to lead with confidence. Gain hands-on experience through co-op and work toward a Chartered Professional Accountant (CPA) or Chartered Financial Analyst (CFA) designation, so you're ready to succeed in a world driven by innovation.

● Financial Accounting; Global Financial Markets; Business Analytics Project Management

▲ Assurance and Advisory; Business Leadership; Corporate Finance; Corporate Reporting; Tax; Venture Capital & Private Equity

■ Accountant, auditor, investment banker

★ Staff accountant, intermediate tax accountant, funding analyst

* COMPUTING AND FINANCIAL MANAGEMENT

See the Faculty of Mathematics section (page 36) for details.

* GLOBAL BUSINESS AND DIGITAL ARTS / WITH STRATFORD SCHOOL OF INTERACTION DESIGN AND BUSINESS

(E, Bachelor of Global Business and Digital Arts) Co-op mandatory

Explore your creative, technical, and business side at the Stratford School of Interaction Design and Business. At this innovative campus, you'll merge flexible thinking with an entrepreneurial spirit to solve real-world problems using emerging technologies. Hands-on learning, industry mentors, co-op terms, and an exchange option empower you to make an impact.

● Marketing in the Digital World; Introduction to User Experience Design; Data and Society

■ User experience designer, social media manager, digital marketing specialist

★ Marketing and communications specialist, UX/UI designer, business analyst, visual designer, web developer

HONOURS ARTS

(E, Bachelor of Arts) Co-op optional; available online

Use your first two terms to test the waters before choosing your major. Sample courses from the humanities, social sciences, fine and performing arts, and languages and cultures. Add co-op as an in-person student and get up to 20 months of paid experience. Also offered at St. Jerome's. Honours Arts Online is available for select majors.

★ Human resources assistant, gallery program assistant, teaching assistant, policy analyst

HONOURS ARTS AND BUSINESS

(E, Bachelor of Arts) Co-op optional

Combine the employable skills of business studies with one of 28 Arts majors to build a uniquely flexible degree for creative and professional careers. Opt for co-op and earn nearly two years of paid work experience. Also offered at St. Jerome's.

★ Business and finance analyst, communications and events associate, small business digital advisor, legislative learner

* SUSTAINABILITY AND FINANCIAL MANAGEMENT

See the Faculty of Environment section (page 29) for details.

Honours Arts and Honours Arts and Business majors

ANTHROPOLOGY

(M, Bachelor of Arts) Co-op optional

Focus on what you're most curious about: archaeological, biological, or socio-cultural anthropology. Whether you're interested in examining relics, learning the evolution of long-distance running, or studying decolonization, you'll take lessons from life and shape the future.

● Skeletal Biology and Forensics; Human Evolution; Food and Culture

■ Archaeologist, curator of natural property, heritage planner

CLASSICAL STUDIES

(M, Bachelor of Arts) Co-op optional

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

● Classical Mythology; Heroes, Heroines, and Villains in Classical Literature; Astrology and Magic

■ Teacher, reference librarian, technical writer

COMMUNICATION STUDIES

(M, Bachelor of Arts) Co-op optional

Learn how people communicate effectively in speaking, writing, and navigating group dynamics (body language and listening skills). More of a visual or creative communicator? The Communication Arts and Design Practice major focuses on creative principles, allowing you to tell a story digitally.

● Designing Digital Presentations; Crisis Communication; Persuasion

■ Digital marketing specialist, product co-ordinator, UX/UI designer

ECONOMICS

(M, Bachelor of Arts) Co-op optional

Economics is more than data and money. You'll explore the dynamics of everyday lives and interpret today's news. Why do women earn less than men? Are the Olympics worth it for the host city? Cover micro- and macroeconomics while studying human behaviour and global financial trends.

● Economics of Sport; Business Cycles; International Finance

▲ Econometrics; Finance; Intensive Economics; Public Policy

■ Financial planner, marketing research manager, economist, financial analyst, international finance manager

ENGLISH

(M, Bachelor of Arts) Co-op optional

Explore the written word, whether as literature, professional writing, or digital media, in tight-knit classes. Choose one of four majors after first year: Creative and Professional Writing; Literature; Literature and Rhetoric; or Rhetoric, Media, and Professional Communication.

● Tolkien: From Book to Film; Manga; The Discourse of Advertising

▲ Communication Design; Creative Writing; Digital Media Studies; Global Literatures; Intensive English; Technical Writing

■ Communications manager, media relations specialist, technical writer, publisher

FINE ARTS

(M, Bachelor of Arts) Co-op optional

Choose from two paths: Studio Practice to make art or Visual Culture for history and theory. As an artist, you'll express yourself using ceramics, painting, print media, photography, and the newest technologies. Visual Culture combines courses from across the faculty.

● World Cinema and Visual Culture; Photography; Expressive Drawing

▲ Digital Art; Teaching Preparation

■ 3D visual effects artist, illustrator, teacher, web designer, curator, interior designer, art therapist



40%

of your courses in
Honours Arts and in
Honours Arts and
Business will be in
your chosen major



FRENCH

(M, Bachelor of Arts) Co-op optional

À *Waterloo*, les possibilités sont infinies. A French degree gives you a valuable edge in almost any field. Live on the French-language residence floor on campus. If you choose our French Teaching Specialization, you're guaranteed a spot in teachers' college at Nipissing University.

● Introduction to Translation; Business French; Children's Literature in French

▲ French Teaching; Intensive French and Francophone Literatures and Cultures; Professional French

■ Director of international sales, immigration officer, translator, teacher

GENDER AND SOCIAL JUSTICE

(M, Bachelor of Arts) Co-op optional

Be an advocate for equity, justice, and inclusive communities. Explore multi-layered marginalization and patterns of oppression based on gender, sexuality, race, class, and disability.

● Gender Issues; The Waves of Feminist Thought; Global Queer Cinema

■ Counselling co-ordinator, social worker

HISTORY

(M, Bachelor of Arts) Co-op optional

Whether you focus on North American or international history, History provides tools to analyze the past and strengthen communities today. Learn vital skills: critical thinking, analysis, and effective communication.

● Rock 'n' Roll and US History; History of Ancient Law; A Global History of Empires

▲ Global Interactions; International Relations; Revolution, War, and Upheaval

■ Government affairs manager, executive researcher, lawyer, director of government relations

LEGAL STUDIES

(M, Bachelor of Arts) Co-op optional

Explore the law and court system from every perspective. This program is a foundation for law school and opens doors to careers in government, politics, business, and law enforcement. Also available: a double degree in human rights and law, offered in partnership with the University of Essex in the U.K.

● Criminal Profiling; Organized Crime; Legal Writing

■ Legal assistant, records clerk, executive researcher, probation and parole officer, lawyer

LIBERAL STUDIES

(M, Bachelor of Arts) Co-op optional

Explore different subjects in the humanities, social sciences, languages and cultures, and fine and performing arts – plus courses you'd like to take from some of Waterloo's other faculties.

● Introduction to Microeconomics; Conflict Resolution; Introduction to Legal Studies

■ Publisher, digital marketing specialist, teacher, human resources manager, library technician

MEDIEVAL STUDIES

(M, Bachelor of Arts) Co-op optional

We are Canada's longest-standing medieval studies program. By concentrating on this pivotal era, you'll gain insights into modern politics, gender norms, the connections between Islam and Christianity, and more.

● Medieval Society; Crusading in the Middle Ages; Medieval Monsters

■ Professional writer, librarian, historical site manager, teacher

MUSIC

(M, Bachelor of Arts) Co-op optional

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 explore how music enriches culture.

● Music Cognition; Introduction to Jazz; Soundtracks: Music in Film

▲ Church Music and Worship; Composition; Cultural Context and Analysis; Intensive Music; Performance

■ Teacher, performer, associate pastor of music, music store owner, recording studio owner

PEACE AND CONFLICT STUDIES

(M, Bachelor of Arts) Co-op optional

Combine theory and practice to study the roots and impact of violence, marginalization, and oppression. Learn to transform conflict into positive change, and gain experience with global co-ops or internships.

● Peace is Everybody's Business; Ethnic Conflict and Conflict Resolution; Negotiation: Theories and Strategies

▲ Restorative Justice

■ Community development officer, social services worker, mediation consultant, lawyer

PHILOSOPHY

(M, Bachelor of Arts) Co-op optional

Learn to think deeply and rigorously about topics ranging from the nature of the human mind to the ethics of emerging technology. Learn to analyze other people's arguments and improve your own. You'll develop the critical-thinking skills valued in public policy, industry, and beyond.

● Biomedical Ethics; Being and Existence; Introduction to Formal Logic; The Meaning of Life

■ Lawyer, public policy analyst, ethicist, corporate archivist

POLITICAL SCIENCE

(M, Bachelor of Arts) Co-op optional

You'll analyze international relations and policy and explore how national and local politics change lives in Canada. You'll gain critical-thinking and problem-solving skills to understand news-making policies and social challenges, such as immigration, housing, and education.

● Politics of Indigenous Peoples; The Political Documentary; Foreign Policy

▲ International Relations

■ Civil servant, director of global programs, project manager, senior consultant

PSYCHOLOGY (M, Bachelor of Arts) Co-op optional

In this internationally renowned program, you'll explore how people think, make decisions, and form emotions. Examine human behaviour through neuroscience, cognition, and clinical, developmental, industrial/organizational, and social psychology.

● Child Psychopathology; Psychology of Death and Dying; Research in Memory

■ Mental health worker, researcher, human resources manager

RELIGION, CULTURE, AND SPIRITUALITY

(M, Bachelor of Arts) Co-op optional

Study faith-based beliefs to understand the world's complexities. Your degree builds critical-thinking skills, cultural awareness, and diversity appreciation.

● Love and Friendship; Spiritual Journeys; Anthropology of Religion

■ Clinical therapist, interfaith chaplain, international development agency director

* SEXUALITIES, RELATIONSHIPS, AND FAMILIES

(M, Bachelor of Arts) Co-op optional

A one-of-a-kind in Canada. Drawing upon critical, anti-oppressive, and social justice approaches, you'll study the latest research and theory about how sexualities, families, and relationships impact everyday life.

● Communication and Counselling Skills; Dynamics of Dating; Sexuality and Popular Culture

▲ Counselling; Human Services Practicum; Intensive Research

■ Sexual health educator, couples and family therapist, youth support worker, mediator

SOCIAL DEVELOPMENT STUDIES (M, Bachelor of Arts)

Co-op optional; available online

Thinking of working in a helping profession? Explore human and social development through psychology, sociology, and social work. Customize your learning with specializations and practical experience. Available online or on campus.

● Positive Psychology; Sociology of Education; Disability and Society; Decolonization and Social Action

▲ Diversity and Equity; Education; Individual Well-being and Development; Social Policy and Social Action; Social Work

■ Teacher, policy analyst, counsellor, lobbyist, social worker

SOCIOLOGY

(M, Bachelor of Arts) Co-op optional

Curious about how society works? Sociology helps you understand how social forces shape modern life. You'll study social interaction while learning to think and write clearly about complex issues.

● Terrorism; Juvenile Delinquency; Media and Crime

■ Youth justice advocate, justice policy analyst, research associate, ESL teacher

THEATRE AND PERFORMANCE

(M, Bachelor of Arts) Co-op optional

Focus your studies in acting, directing, technical theatre, or theory, and then hone your skills in student-led productions each term. You'll graduate with a rich portfolio!

● Stage Management; Approaches to Directing; Performance Creation

■ Set designer, actor, floor director, stage manager, general manager

Professional degree

SOCIAL DEVELOPMENT STUDIES AND BACHELOR OF SOCIAL WORK DOUBLE DEGREE / WITH RENISON UNIVERSITY COLLEGE

(E, Bachelor of Arts and Bachelor of Social Work) Regular only

Build a strong foundation in understanding people and social systems while preparing for professional practice. This double degree blends Social Development Studies with a Bachelor of Social Work, giving you theoretical insight and hands-on experience. You'll study human development, social inequality, and community change, before moving into professional training with supervised practicum placements. Graduate with two degrees and the qualifications needed to pursue professional social work registration and make a meaningful impact in communities.

● Introduction to Social Work; Foundations of Critical Social Work; Social Work and Organizations

▲ Diversity and Equity; Education; Individual Well-being and Development; Social Policy and Social Action

■ Social worker, mental health practitioner, community agency lead, policy and advocacy specialist



Faculty of Engineering

**Push boundaries. Ignite innovation.
Transform ideas into reality.**

Join the faculty with a hand in every aspect of modern life. You could design sustainable buildings, improve transit systems, reorganize corporate ladders, or build robots that save lives – all before graduation. In Engineering, the future is in your hands. Are you ready to get to work? 

uwaterloo.ca/future/engineering



TOP 40

in the world for engineering

*(QS World University
Subject Rankings 2026)*

“The sense of community at Waterloo – professors, alumni, classmates – made it feel like everyone genuinely wanted you to succeed and grow.”

Thevany Narayanamoorthy (she/her) (BASc '19), Brampton, Ontario, Management Engineering, Manager of Product Management, Enterprise Data & Analytics at TJX Canada – Winners, Marshalls, HomeSense





Co-op employers

Recent Engineering students have worked for employers such as:

- › Microsoft
- › Toyota Motor Manufacturing Canada
- › Arcadis
- › Nicoya
- › Blue Origin



#1

**in Canada for
engineering
program
reputation**
(Tied for #1,
Maclean's 2025)

#2

**in Canada for
architecture**
(Tied for #2,
QS World
University Subject
Rankings 2026)

Engineering programs

ARCHITECTURAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 Build better buildings (and a bright career in the process). In this program, you'll cover the science and engineering of good building design, including structural and fluid mechanics, heat transfer, building systems, and structural analysis and design – and round it out with course content in aesthetics, culture, and other design elements delivered in collaboration with our world-class School of Architecture.

- Enclosure Design Studio; Structure and Properties of Materials; Energy and the Environment
- ▲ Building Structures; Building Systems
- Building design consultant, project manager, construction manager, building operations manager
- ★ Field co-ordinator, structural engineering assistant, building inspector, project co-ordinator and estimator

ARCHITECTURE / WITH SCHOOL OF ARCHITECTURE (E, Bachelor of Architectural Studies) Co-op mandatory

Design your future at 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, technology, the environment, and society. Study at our studio in Rome, Italy in fourth year. Questions? Email archinfo@uwaterloo.ca.

- Design Studio; Introduction to Cultural History; Visual and Digital Media; Environmental Building Design; Building Construction; Digital Fabrication
- Architect, project manager, urban designer, industrial designer, sustainable development and heritage professional
- ★ Architectural assistant, interior architecture designer, 3D architectural artist

BIOMEDICAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 Create tomorrow's life-saving and life-enhancing innovations. In this interdisciplinary program, you'll study principles of biology, physics, engineering fundamentals, systems analysis, and engineering design. With plenty of hands-on experience from labs, design projects, and co-op, you'll graduate ready to develop new solutions for health care.

- Prototyping, Simulation and Design; Engineering Biology; Physiological Systems Modelling
- ▲ Biomaterials and Tissues; Biomechanical and Rehabilitation Engineering; Biomedical Imaging Technologies; Biomedical Artificial Intelligence; Medical Devices; Neural Engineering
- Medical device engineer, research and development engineer, health-care project manager, biotechnology software engineer
- ★ Molecular biology and drug delivery co-op, clinical application analyst, surgical robotics research intern

CHEMICAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 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, waste into resources, and raw materials into useful products in almost any industry: biotechnology, pollution control, green fuels, power storage, health care, food production, and more.

- Chemical Reaction Engineering; Food Process Engineering; Air Pollution Control
- ▲ Chemical Process Modelling, Optimization and Control; Energy and Environmental Systems and Processes; Materials and Manufacturing Processes
- Pharmaceutical product developer, semiconductor process engineer, process improvement specialist
- ★ Research lab assistant, cosmetic process engineering assistant, nuclear product management assistant

CIVIL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 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 Systems and Project Management
- ▲ Building Science; Geotechnical; Structural; Transportation; Water Resources
- Transportation planner, structural engineer, water resources technologist
- ★ Quality control technician, structural engineering assistant, transportation systems modelling analyst, bridge engineering assistant

COMPUTER ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 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 circuit-level high-speed processors to artificial intelligence. Plus, gain valuable work experience in the Waterloo region: a high-tech hub home to more than 1,500 technology companies.

- Systems Programming and Concurrency; Computer Networks; Artificial and Natural Intelligence
- ▲ Communications and Signal Processing; Quantum Engineering
- Full-stack developer, embedded systems engineer, robotics systems developer, machine learning engineer
- ★ Automation developer, software developer, junior full-stack software developer

ELECTRICAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 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; Quantum Engineering
- Autonomous vehicle developer, renewable energy project manager, sensor design engineer
- ★ Electrical assembler, firmware engineering assistant, electrical and power designer

ENVIRONMENTAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory
 Ready to help solve some of the world's most pressing challenges? Environmental engineers are getting it done. You'll merge your strengths in math and physics with an interest in biology, chemistry, geology, and geography. Then put them to use with the latest science and technology. Lead the way to a more sustainable future with this in-demand field. Opportunity awaits.

- Air Quality Engineering; Design of Urban Water Systems; Environmental Modelling
- ▲ Energy and Climate Change; Modelling and Data Analytics; Pollution and Restoration; Sustainable Cities; Water Resources
- Water resources engineer, emissions control engineer, green infrastructure engineer, sustainability consultant
- ★ Project co-ordinator, land development engineering assistant, environmental engineering assistant, climate resilience specialist



GEOLOGICAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

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 and labs, you'll spend more time outside the classroom than in any other engineering program.

● Geotechnical Engineering; Rock Mechanics; Structural Geology

▲ Geology; Hydrogeology; Soil, Rock and Structures

■ Geosensing systems developer, geotechnical risk analyst, geotechnical engineer

★ Geotechnical engineering assistant, concrete lab technician, survey assistant, rock mechanics engineer, mining engineering intern

MANAGEMENT ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

Engineer business decisions in the age of AI. Gain skills in analytics, data science, software and information systems, optimization, and management. You'll use your skill set to design and manage complex, efficient, technical systems and processes for today's data-driven organizations.

● Advanced Machine Learning; Analytics and User Experience; Supply Chain Management

■ Business systems analyst, product manager, consultant, data engineer, AI engineer

★ Product management intern, data analyst, operations analyst, software developer

MECHANICAL ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

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 topics like manufacturing, fluid dynamics, heat transfer, material processing, and sustainable energy, so you'll graduate with the knowledge to design everything from valves to vehicles.

● Mechanical Design; Thermodynamics; Fluid Mechanics

▲ Welding and Joining

■ Advanced manufacturing engineer, propulsion systems developer, automotive R&D engineer

★ Mechanical designer, manufacturing engineer, plant maintenance master data analyst

MECHATRONICS ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

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 electro-mechanical devices.

● Sensors and Instrumentation; Microprocessor Systems and Interfacing; Structure and Properties of Materials

■ Robotics engineer, bioelectronics developer, wearable tech product designer

★ Aircraft control systems development intern, high-performance battery engineering assistant, senior AI robotics test engineering assistant

NANOTECHNOLOGY ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

Design solutions measured in billionths of a metre in Canada's first accredited undergraduate nanotechnology engineering program. Combining engineering principles with ideas from chemistry, electronics, quantum physics, and biology, you'll create in our state-of-the-art laboratories and cleanroom facilities the tiny technologies that are revolutionizing everything from computer chips to energy storage to biomedical devices.

● Nanomedicine and Nanobiotechnology; Quantum Mechanics; Nano-Electronics

▲ Nanobiosystems; Nanoelectronics; Nanofabrication; Nanomaterials

■ Targeted drug delivery scientist, nanomaterials engineer, semiconductor process engineer, vaccine formulation specialist, battery systems engineer

★ Software developer, compiler engineering co-op, cell manufacturer

SOFTWARE ENGINEERING / WITH FACULTY OF ENGINEERING AND FACULTY OF MATHEMATICS

(E, Bachelor of Software Engineering) Co-op mandatory

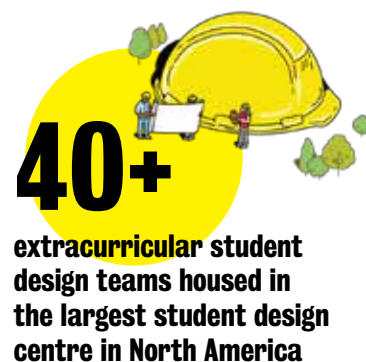
Today, even your fridge is full of software. Learn to create complex programs using math, engineering, and computer science. You'll develop the skills to analyze software architecture, apply algorithms, design human-computer interfaces, and lead major projects.

● Programming Principles; Logic and Computation; Machine Learning; Operating Systems

▲ Artificial Intelligence; Business; Computational Fine Art; Human-Computer Interaction

■ Systems software developer, cybersecurity engineer, technical project lead

★ Junior software developer, full-stack web developer, data and relevancy engineering assistant



SYSTEMS DESIGN ENGINEERING

(E, Bachelor of Applied Science) Co-op mandatory

Analyze and design solutions for today's most complex and urgent challenges, including climate change, sustainable development, trustworthy AI, and human-machine interactions. In this interdisciplinary program, you'll apply a big-picture perspective to examining how human, technological, and environmental systems interact. Plenty of hands-on learning will give you the in-demand design skills to open doors to countless engineering careers.

● Culture of Design, Impacts; Engineering Prototyping; Human Factors in Design; Systems Models; Ecological Systems; Responsible Artificial Intelligence Systems

▲ Human Factors and Interfaces; Intelligent and Automated Systems; Physical and Mechatronics Systems; Societal and Environmental Systems

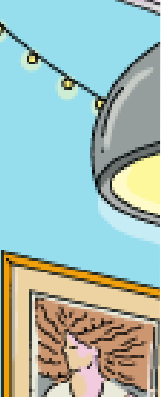
■ Complex systems designer and analyst, AI systems designer, data scientist, socio-environmental engineer

★ Technical test developer, intelligent systems engineer, enterprise architect



"Waterloo's co-op program gives you real, valuable work experience from the beginning – it really sets you apart from what you'd get anywhere else."

Hayley Whelan (she/her) (BASc '19), Charlottetown, Prince Edward Island, Nanotechnology Engineering, Senior R&D Engineer at Irradiant Technologies



“Through leadership roles in my student community, field studies in Ghana and South Africa, and exploring my interests across disciplines, Environment gave me the confidence and hands-on skills to pursue meaningful change for people, wildlife, and ecosystems.”

Jordan (she/her), Pelham, Ontario,
Environment, Resources, and
Sustainability



Co-op employers

Recent Environment co-op students have worked for employers such as:

- › The Regional Municipality of York
- › Habitat for Humanity
- › Deloitte
- › Environment and Climate Change Canada
- › Enbridge





Faculty of Environment

With the world, for the world

In Environment, we don't just wait for the world to change – we take action. Research climate change in the Arctic. Study ocean ecosystems on the Atlantic coast. Explore cities designed to meet the challenges of the next century. And immerse yourself in complex environments around the globe. Every Environment program starts with common foundation courses. In labs, field courses, and co-op terms, you'll find your niche, gain hands-on experience, and develop job-ready skills you can use no matter where your journey takes you. All over the world, our grads are shaping and implementing green policies in the public sector, fueling sustainable transitions in the private sector, and advocating for a better future everywhere. Are you ready to make your mark? **W**

uwaterloo.ca/future/environment



TOP 5

in Ontario for sustainability
(QS Sustainability Rankings 2026)

150+

**hectares of outdoor
learning spaces and gardens**

Environment programs

✱ CLIMATE AND ENVIRONMENTAL CHANGE

(E, Bachelor of Science) Co-op optional

Redefine tomorrow by learning how we can make the world a safer place for all. Dig into scientific solutions that help communities adapt to the impacts of climate breakdown, from floods to forest fires. With this BSc program, you'll integrate physics, chemistry, biology, and geography. Delve deeply into topics like atmospheric science, glaciology, and climate modelling. See how climate science becomes climate policy, to drive the environmental — and societal — change we need.

● Climate Change Solutions; Climate Services; Ice Sheets and Glaciers

▲ Aviation; Economy and Development; Environment, Society and Well-Being; Geographic Information Systems; Remote Sensing

■ Climate modeller, climate risk analyst, agricultural scientist, renewable energy specialist, environmental consultant

★ Projects assistant, ecologist, climate change policy analyst

✱ ENVIRONMENT AND BUSINESS

(E, Bachelor of Environmental Studies) Co-op mandatory

The responsibility for addressing urgent challenges such as climate change, biodiversity conservation, and social justice is shared among government, business, and consumers. But what is the right balance? How do we get there? This action-oriented program, which includes a team capstone project that has you working with a real business, does more than bolt environment and business together. It's a whole new way of thinking about our systems of commerce, manufacturing, and trade.

● Green Entrepreneurship; Fashion, Consumption, and Sustainability; Corporate Sustainability Accounting and Reporting

▲ Sustainable Finance

■ Sustainability analyst, sustainability consultant, environmental stewardship manager, sustainability policy advisor

★ Environmental project assistant, conservation intelligence and analytics associate, corporate sustainability associate

✱ ENVIRONMENT, RESOURCES AND SUSTAINABILITY

(E, Bachelor of Environmental Studies) Co-op optional

Do you want a career with meaning and impact? Get your boots dirty with hands-on field courses. Integrate ecology and social science. Connect practical skills in ecosystem monitoring and restoration with environmental policy analysis, impact assessment, and collaborative decision making. Belong to a community of professors, co-op employers, and classmates committed to leading the way forward. Customize this program to focus on what matters to you: nature and biodiversity, energy and climate, or food systems sustainability and water.

● Communities and Sustainability; Environment and Sustainability Assessment; ReWilding and Ecological Restoration

■ Terrestrial and wetland ecologist, sustainability policy analyst, parks and protected areas manager, environmental educator

★ Waste management project assistant, sustainability projects co-ordinator, environmental education instructor

✱ GEOGRAPHY AND AVIATION

(E, Bachelor of Environmental Studies) Regular only

Take to the skies with Canada's largest university-level aviation program. You'll earn a degree from one of the country's top-ranked geography departments — plus your integrated Airline Transport Pilot Licence with multi-engine and instrument ratings. Between the classroom and the cockpit, you'll explore landforms, weather patterns, geographic information systems (GIS), and more.

● Aviation Meteorology; Introduction to Geographic Information Systems; Professional Pilot Program Course; Aviation Sustainability

■ Pilot, first officer, flight training instructor, aerial surveyor



GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

(E, Bachelor of Environmental Studies)

Co-op optional

Move beyond the doomsday headlines and help create solutions to the challenges you're passionate about in this flexible program. Find your niche in climate change, earth systems science, human geography, or geospatial data science, while you practise viewing the world through a variety of lenses. Develop a broad range of expertise in topics like peatland restoration or the interconnections between climate change and shifts in tourism activities. You'll take plenty of field trips too, ranging from nearby places like Elora to distant locations like Singapore, South Africa, and Ireland.

● Economy and Development; Spaces of Global Transformation; Low Carbon Transition; Environmental Hydrology of Terrestrial Ecosystems; Human Dimensions of Natural Hazards; Sustainable Tourism

▲ Aviation; Climate Change; Earth Systems Science; Economy and Development; Environment, Society & Well-Being; Geographic Information Systems; Remote Sensing

■ Environmental stewardship co-ordinator, policy advisor, field technician, sustainability consultant, teacher

★ Assistant salmon officer, biology and ecology field associate, agroclimate analyst

GEOSPATIAL DATA SCIENCE

(E, Bachelor of Environmental Studies)

Co-op optional

Harness the power of spatial technologies to address the world's biggest challenges. In this cutting-edge program, you'll develop skills in data visualization, software development, remote sensing, and environmental analysis. Using satellite data, drones, AI, and custom software, you'll uncover the hidden trends of human behaviour and environmental processes — and the factors that drive change.

● Earth from Space Using Remote Sensing; Artificial Intelligence in Geospatial Data Science; Spatial Statistical Analysis

▲ Economy & Development; Environment, Society & Well-Being; Climate Change; Earth Systems Science; Aviation

■ Spatial data scientist, GIS developer, drone and geomatics specialist

★ Transportation systems modelling & simulation analyst, surface climate data analyst, geospatial analyst

LARGEST

Faculty of Environment in Canada



“My degree let me take drama classes, travel to the Arctic, and attend international climate negotiations. It gave me the space to figure out what I truly wanted to do with my life. As cliché as it sounds, it prepared me for more than just a job – it prepared me to find a purpose.”

Ashoke Mohanraj (he/him) (BES '21), Halifax, Nova Scotia, Environment, Resources and Sustainability, Legal and Regulatory Lead for ARGONETA



#1

**in Canada for
remote sensing**

*(Academic Ranking of
World Universities 2025)*



STANDOUT

environmental studies programs

(Maclean's 2026)

TOP 5

in Canada for geography

*(QS World University
Subject Rankings 2026)*

PLANNING

(E, Bachelor of Environmental Studies) Co-op mandatory
Create livable and equitable cities. Address population growth. Reshape where – and how – people live, work, and get around. Just ask experts in the field: this highly respected program gives you the best preparation for a planning career. The largest of its kind in Canada and recognized internationally, the interdisciplinary School of Planning tackles a range of environmental, social, urban, and regional issues.

● Social Issues in Planning; Transportation Planning and Mobility; Planning to Confront Climate Change

▲ Environmental Planning; Land Use, Transportation, and Infrastructure Planning; Social Planning and Community Development; Urban Design

■ Environmental planner, land use planner, urban designer, transit planner

★ Planning policy analyst, transportation planning co-ordinator, map designer

✦ SUSTAINABILITY AND FINANCIAL MANAGEMENT / WITH FACULTY OF ARTS AND SCHOOL OF ACCOUNTING AND FINANCE

(E, Bachelor of Sustainability and Financial Management) Co-op mandatory
Become a sought-after expert who can measure profits and planetary health. Through this one-of-a-kind program, you'll master accounting and financial management at Waterloo's world-class School of Accounting and Finance and study sustainability in Canada's biggest Faculty of Environment. Plus, you'll get up to 16 months of co-op experience and work toward a Chartered Professional Accountant (CPA) or Chartered Financial Analyst (CFA) designation.

● Global Financial Markets; Sustainability Economics; Enterprise Carbon Accounting

▲ Sustainable Materials and Circularity; Data Analytics for Sustainability; Policy, Governance, and Managing Natural Resources; Indigenous Entrepreneurship; plus, Sustainability and Financial Management students have access to all Accounting and Financial Management specializations

■ Accountant, financial consultant, sustainability analyst, financial analyst, internal auditor

★ Staff accountant, valuations and modelling co-op, sustainable investing student



Faculty of Health



Help people thrive

We are a tight-knit community dedicated to preventing disease, healing injuries, and optimizing quality of life for all. Learn about physical, societal, and mental health to pursue a variety of health-related career paths. Make a difference in your community and improve the lives of people around you. 

uwaterloo.ca/future/health

Co-op employers

Recent Health co-op students have worked for employers such as:

- › Mount Sinai Hospital
- › University Health Network
- › Maple Leaf Sports & Entertainment
- › Sunnybrook Health Sciences Centre
- › Canadian Institute for Health Information





“The curriculum exposed me to critical concepts such as the social determinants of health and the role of health informatics in strengthening our health-care system, all while allowing me to thrive academically without compromising my GPA.”

Rithvika Ramesh (she/her) (BSc '21),
Toronto, Ontario, Health Studies
(now called Health Sciences), Family
Medicine Resident, University of Toronto

95%

**of Health grads are
employed or pursuing
further education within
a year of graduating**
(survey of 2018-2024 graduates)

TOP 10

**in Canada for sports-
related subjects**
(QS World University
Subject Rankings 2026)

**“If you’re curious about the
human body, enjoy science,
and want a career where
you can make a difference
in people’s lives, Kinesiology
can offer that foundation.”**

Courtney Voisin (she/her) (BSc '17),
Waterloo, Ontario, Kinesiology,
Clinical Director at SOS
Physiotherapy



Health programs

Entry programs

HEALTH SCIENCES

(E, Bachelor of Science) Co-op optional

Everybody deserves to be healthy, no matter who they are or where they live. Take a "cell to society" approach to human health – learning how biological and social factors impact everything from cancer to addictions and from infectious diseases to aging. Then put your customizable degree to work with real-world projects and community engagement opportunities.

● Global Health; Epidemiology of Communicable Diseases; Principles of Pathobiology

▲ Health Research; Pre-Clinical

■ Health professional (e.g., medical doctor, nurse, occupational therapist, midwife, genetic counsellor), epidemiologist, clinical research co-ordinator, health informatics consultant

★ Clinical research assistant, electronic medical records management assistant, disability case associate, genetic counsellor assistant

KINESIOLOGY

(E, Bachelor of Science) Co-op optional

If you want to learn the human body inside out, you've found your fit. Kinesiology combines social sciences, biomechanics, anatomy, physiology, nutrition, and neuroscience – and even a first-year anatomy lab with human cadavers – to provide exceptional in-class and hands-on learning. Explore your interests through plenty of research and volunteer opportunities too.

● Regional Human Anatomy; Exercise Physiology and Metabolism; Musculoskeletal Injuries in Sport and Activity

▲ Rehabilitation Sciences

■ Health professional (e.g., medical doctor, physiotherapist, occupational therapist, athletic therapist, kinesiologist, chiropractor), clinical research co-ordinator, exercise physiologist

★ Rehabilitation assistant, health and safety ergonomist, health coach, research assistant

PUBLIC HEALTH

(E, Bachelor of Public Health) Co-op optional

Contribute to the well-being of communities around the world. In this highly adaptable program, you'll explore how social, cultural, political, and environmental factors have an impact on modern-day health challenges. Learn how to battle infectious diseases, write health policies, and decipher life-saving research. Through initiatives from tobacco control to vaccine programs, public health professionals save millions of lives each year.

● Social Determinants of Health; Public Health Nutrition; Principles of Epidemiology

▲ Health Research

■ Community relations officer, public health planner, policy developer, health promotion specialist

★ Junior policy analyst; assistant co-ordinator, volunteer resources; fundraising campaign assistant; strategic engagement and advocacy researcher

Recreation and Leisure Studies majors

Apply to Recreation and Leisure Studies through OUAC and choose one of three majors (M), which start right in first year.

RECREATION, LEADERSHIP, AND HEALTH

(M, Bachelor of Arts) Co-op optional

Every time someone visits a music festival, meets friends at the neighbourhood rec centre, or sits in the stands cheering on their favourite team, recreation professionals make it happen. You'll get into the action with hands-on assignments and community-based projects in this innovative program. Graduate with transferable leadership skills that will prepare you for a rewarding career that promotes happiness, health, and brighter communities.

● Experience Design and Delivery; Leading Action for Community Change; Leisure and Well-being

■ Community recreation programmer, teacher, policy researcher, director of parks and recreation

★ Outdoor education facilitator, recreation programmer, marketing event co-ordinator, community inclusion co-ordinator

SPORT AND RECREATION MANAGEMENT

(M, Bachelor of Arts) Co-op optional

You don't just want to play sports – there's plenty of action behind the scenes too. Merge your love of sport and recreation with business training in class and real-world learning through hands-on assignments, industry-based projects, and community engagement. Whether you're working for a major-league team or launching a sport program for equity-deserving youth, your degree will open doors to a multibillion-dollar industry where you can make your passion your profession.

● The Business of Professional Sport; Innovative Solutions in Recreation and Sport Management; Amateur Sport from Playground to Podium

■ Recreation and events director, marketing and sales director, sport programming manager

★ Sport marketing co-ordinator, e-sports event co-op, tournament operations assistant

THERAPEUTIC RECREATION

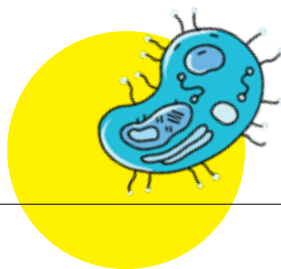
(M, Bachelor of Arts) Co-op optional

Use recreation to help others. You'll learn to design and facilitate meaningful experiences that cater to the diverse needs of people in health-care and community settings. You'll learn about disability, inclusion, and well-being. Plus, gain hands-on experience through a required 105-hour practicum and a required 560-hour internship.

● Foundations of Therapeutic Recreation Practice; Therapeutic Recreation Facilitation Techniques; Therapeutic Recreation: Physical Disabilities

■ Recreation therapist, occupational therapist, elder life specialist, child life specialist, social worker, inclusion co-ordinator

★ Vocational/residential assistant, community recreation facilitator, recreation therapy assistant





Sport and Recreation Management student on a co-op term with the Canadian Olympic Committee.

Customize your degree

PRE-CLINICAL SPECIALIZATION*

This specialization is great preparation for entry into medical school and other clinical professional schools.

*Only available to Health Sciences students

ADDICTIONS, MENTAL HEALTH, AND POLICY MINOR

Explore biological, socio-behavioural, and systemic factors surrounding mental health and substance abuse.

EVENT MANAGEMENT MINOR

Plan, implement, and assess events while gaining practical project management skills and experience.

NEUROSCIENCE MINOR

Develop in-depth knowledge about the brain, from neurons to the nervous system to cognition and behaviour.

Discover more ways to tailor your degree

uwaterloo.ca/future/customize

“I never imagined that after my undergraduate studies I would go on to co-found a charity. What I did know was that I wanted to make a difference in my community and apply my Public Health background in a meaningful way.”



Felicia Corrado (she/her) (BPH '19), Kitchener, Ontario, Public Health, Founder and Executive Director, Keep Your Head Up Foundation

Where your degree can take you

The Faculty of Health focuses on individual and community well-being. Some of the careers our graduates pursue focus on healthy living, preventing disease or injury, optimizing physical ability, diagnosis, rehabilitation, and treatment.

Health Sciences

- > Many graduates start careers, such as: medical education co-ordinator, pharmacy assistant, clinical trial assistant, research assistant.
- > More than half of graduates pursue post-graduate education, including: Doctor of Medicine, Doctor of Optometry, Master of Health Science, Master of Science in Applied Human Nutrition.

Kinesiology

- > Many graduates start careers, such as: chiropractic assistant, conditioning coach, physiotherapy assistant, research intern, ergonomic program co-ordinator.
- > More than half of graduates pursue post-graduate education, including: Doctor of Medicine, Doctor of Pharmacy, Master of Engineering in Systems Design Engineering, Master of Science in Clinical Anatomy.

Public Health

- > Many graduates start careers, such as: analyst, child care subsidy case aide, pharmacy assistant, program officer, senior data specialist.
- > Some graduates pursue post-graduate education, including: Master of Health Administration, Master of Public Health, Master of Management - Applied Science, Master of Science in Epidemiology, Master of Science in Global Health.

Recreation Majors

- > Most graduates start a career, such as: analytics co-ordinator, brand ambassador, community program co-ordinator, digital communications and events lead, human resources, recreation co-ordinator, FIFA licensed agent, recreation therapist.
- > Some graduates pursue post-graduate education, including: Master of Science in Occupational Therapy; Master of Arts in Child Study and Education; Master of Business, Entrepreneurship, and Technology; Bachelor of Education; Master of Climate Change. **W**

uwaterloo.ca/future/careers-health



Faculty of Mathematics

Multiply your possibilities

Join a community of people who share your passion for mathematics in the only dedicated Faculty of Mathematics in North America. You'll be immersed in a network of math-loving peers who will help you make the most of your university experience. Through your courses, co-op work terms, and extracurricular activities, you'll apply lessons from the classroom to real-world situations, build your professional network, and graduate ready for an impactful career. From boardrooms to research labs, your education and experiential learning will help you stand out in a competitive global job market.

uwaterloo.ca/future/mathematics

TOP 20

in the world for
cybersecurity

(EduRank 2026)

A computing powerhouse

The David R. Cheriton School of Computer Science is the largest academic computer science research centre in Canada. With access to 15 research areas and deep connections to Canada's growing tech sector, you'll have the chance to pursue cutting-edge research, make your mark building your own entrepreneurial venture, and learn from the best through classes taught by leading experts. 

uwaterloo.ca/future/school-computer-science





#1
in Canada for
computer science
(Tied for #1,
Maclean's 2025)

#2
in Canada for
mathematics
(QS World University
Subject Rankings 2026)



Co-op employers

Recent Math co-op students have worked for employers such as:

- › Google
- › RBC
- › Bloomberg
- › PointClickCare
- › Manulife

“My time at Waterloo gave me the resilience and adaptability that still drive me today. Co-op gave me a head start on my career, and my math degree trained me to think critically in any setting – whether that’s advising governments or launching a startup.”

Qasim Farasat (he/him) (BMath '15), Punjab, Pakistan, Co-founder of DelayDollars; Co-founder of Institute for Sustainable Development and Cooperation; and Senior Data Consultant at Co-operators General Insurance Company

Mathematics programs

Entry programs

BUSINESS ADMINISTRATION (LAURIER) AND COMPUTER SCIENCE (WATERLOO) DOUBLE DEGREE / WITH DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Business Administration and Bachelor of Computer Science) Co-op mandatory

Work at the apex of business and technology and tackle complex challenges. You'll earn two degrees in five years from prestigious computer science and business schools. Learn everything from software development to AI at Waterloo and business essentials at nearby Wilfrid Laurier University.

● Designing Functional Programs; Understanding the Business Environment; Information Systems Management

■ Business analyst, software engineer, application developer

★ Infrastructure systems designer, trading products quantitative analyst, full-stack developer

BUSINESS ADMINISTRATION (LAURIER) AND MATHEMATICS (WATERLOO) DOUBLE DEGREE (E, Bachelor of Business Administration and Bachelor of Mathematics) Co-op mandatory

Combine Waterloo's strength in mathematics with the business expertise of Wilfrid Laurier University and earn two prestigious degrees simultaneously. 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; Management Information Systems; Introduction to Optimization

■ Securities trader, management analyst, corporate strategist

★ Portfolio management intern, investment banking analyst, project manager assistant

COMPUTER SCIENCE / WITH DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Computer Science or Bachelor of Mathematics) Co-op optional

Earn a degree from one of the world's top computer science schools and develop a broad understanding of systems, networks, algorithms, security, and software engineering. Customize your degree by adding specializations and minors to match your interests and skills.

● Privacy, Cryptography, Network and Data Security; Introduction to Quantum Information Processing; The Social Implications of Computing

▲ Artificial Intelligence; Bioinformatics; Business; Computational Fine Art; Digital Hardware; Game Design; Human-Computer Interaction; Software Engineering

■ Software developer, cybersecurity specialist, business and backend developer

★ DevOps engineer, game programmer, full-stack developer

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

Set yourself apart in the fintech market by combining computer science and finance. You'll learn to design and apply technological solutions to complex financial problems and gain real-world experience during co-op work terms employed in software development, banking, investment, risk management, and insurance.

● Object-Oriented Software Development; Regression and Forecasting Methods in Finance; Financial Data Analytics

■ Software developer, quantitative analyst, investment banking analyst

★ Global markets quantitative analyst, software developer, investment technology developer

MATHEMATICS (E, Bachelor of Mathematics) Co-op optional

Make math your own at Waterloo. After a foundational first year of studying topics including algebra, calculus, and computer science, you'll choose from 16 majors (M) to focus your studies. Take advantage of study-abroad opportunities and co-op terms, and then use your problem-solving superpowers in today's data-driven marketplace.

MATHEMATICS/BUSINESS ADMINISTRATION (E, Bachelor of Mathematics) Co-op optional

Unlock the dynamic potential of mathematics and succeed in the world of business. A blend of courses from Waterloo's Faculty of Mathematics and Wilfrid Laurier University's Lazaridis School of Business and Economics prepares the best and brightest for top-paid co-op work terms and careers.

● Computer Applications in Business; Databases; Corporate Finance; Principles of Marketing

■ Operations manager, risk modelling analyst, investor relations specialist

★ Market research and insights co-op, supply chain analyst, business systems analyst

✱ MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY / WITH FACULTY OF MATHEMATICS AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Mathematics) Co-op mandatory

Learn how to crunch the numbers and 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 focused studies in accounting, economics, and business.

● Introduction to Financial Accounting; Cost Management Systems; Corporate Finance

▲ Data Analytics; Finance

■ Accountant, controller, auditor

★ Junior accounting analyst, business analyst, staff tax accountant

✱ MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT (E, Bachelor of Mathematics) Co-op optional

Fast-track your journey toward obtaining a Chartered Financial Analyst (CFA) or Professional Risk Manager (PRM) designation with a tight-knit class of students. You'll work alongside dedicated classmates to prepare for required accreditation examinations and build your professional network.

● Computational Methods in Business and Finance; Investment Science and Corporate Finance; Mathematics of Financial Markets

▲ Chartered Financial Analyst; Professional Risk Management

■ Financial analyst, risk analyst, investment analyst

★ Risk analyst, finance operations co-op, credit risk analyst

SOFTWARE ENGINEERING

See the Faculty of Engineering section (page 25) for details.

Mathematics majors

ACTUARIAL SCIENCE

(M, Bachelor of Mathematics) Co-op optional

Harness the power of mathematics, probability, statistics, and financial theory. You'll learn to understand market trends, assess and mitigate financial risks, and design and manage products primarily in insurance and pension plans. Accredited by the Canadian Institute of Actuaries, this top-ranked program streamlines entry into the high-paying field.

● Financial Mathematics; Life Contingencies; Quantitative Enterprise Risk Management

▲ Finance; Predictive Analytics

■ Actuary, quantitative analyst, predictive analytics specialist

★ Actuarial analyst, data scientist, financial analyst

APPLIED MATHEMATICS

(M, Bachelor of Mathematics) Co-op optional

Apply data, mathematical models, computation, and AI techniques to solve real-life problems from science, medicine, and technology. By expanding your knowledge of calculus, linear algebra, differential equations, and neural networks, you'll develop mathematical and computational modelling skills to work in many industries, including pharma, banking, tech, and government.

● Computational Methods for Differential Equations; Introduction to Mathematical Biology; Control Theory

▲ Biology; Climate and Sustainability; Economics; Engineering; Physics

■ Data scientist, computational scientist, research scientist

★ Data analyst, scientific programmer, machine learning intern

APPLIED MATHEMATICS WITH SCIENTIFIC COMPUTING AND SCIENTIFIC MACHINE LEARNING

(M, Bachelor of Mathematics) Co-op optional

Use AI techniques and advanced numerical methods to tackle real-world scientific and engineering challenges. This dynamic program enables you to harness the powers of machine learning and data-driven mathematical modelling to work with complex systems in science, medicine, and technology.

● Introduction to Computational Mathematics; Neural Networks; Data-Driven Mathematical Models

■ AI research scientist, LLM data scientist, AI engineer

★ Machine learning research engineer, data analyst, STEM software developer





BIostatistics

(M, Bachelor of Mathematics) Co-op optional
Fight illness with a healthy dose of data. This program focuses on clinical, public, and population health statistics with specialized upper-year courses. You'll graduate with strong data-based decision-making skills needed to be part of an effective health-care research team.

- Introduction to Biostatistics; Statistical Methods for Life History Analysis; Applied Linear Models
- Medical researcher, data analyst, biostatistician
- ★ Cancer genome data analyst, research associate, medical research assistant

COMBINATORICS AND OPTIMIZATION

(M, Bachelor of Mathematics) Co-op optional
Combine theoretical mathematics with practical applications. Combinatorics is the study of discrete structures, while optimization explores ways to increase operational efficiency. You'll learn to apply these ideas to modern problems through courses in cryptography, quantum information theory, graph theory, and semi-definite programming

- Matroid Theory; Algorithm Design and Analysis; Applied Cryptography
- Data scientist, operations research analyst, cryptographer
- ★ Web interface developer, cryptographic security analyst, information systems specialist

COMPUTATIONAL MATHEMATICS

(M, Bachelor of Mathematics) Co-op optional
Learn how to combine computer science with powerful mathematical models to better understand the world around you, analyze data, and predict trends. Solve real-world problems using the latest technology in the fields of business, engineering, finance, medicine, and science.

- Data Structures and Data Management; Portfolio Optimization Models; Statistical Learning
- Machine learning data analyst, data science software developer, business systems analyst
- ★ Data scientist, software quality assurance specialist, software developer

DATA SCIENCE / WITH DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

(M, Bachelor of Computer Science or Bachelor of Mathematics) Co-op optional

Learn to collect, analyze, and find patterns in large data sets. This program combines statistics, mathematics, and computer science with electives from across the University. With world-renowned tech companies nearby, take advantage of the community's startup culture and industry connections.

- Algorithms; Data Visualization; Data Structures and Data Management
- Data scientist, statistician, business analyst
- ★ Data scientist, IT solution developer, risk management analyst

INFORMATION TECHNOLOGY MANAGEMENT

(M, Bachelor of Mathematics) Co-op optional
Bridge the gap between tech and business. Companies depend on technology teams to solve complex business problems, so being fluent in IT and business will make you indispensable to financial institutions and corporations and set you apart.

- Management Information Systems; Electronic Business; Computer Applications in Business; Databases
- Business systems analyst, web developer, database administrator
- ★ Business systems analyst, web developer, IT solutions analyst

MATHEMATICAL ECONOMICS

(M, Bachelor of Mathematics)
Co-op optional
Master the math that underpins economies. 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 in academia.

- Introduction to Microeconomics; Advanced Macroeconomics; Differential Equations for Business and Economics
- Business analyst, econometrician, consultant
- ★ Employment metrics analyst, enterprise portfolio manager, economic analyst

MATHEMATICAL FINANCE

(M, Bachelor of Mathematics)
Co-op optional
Study equations that include dollar signs, and join other elite math students in one of the world's most advanced undergrad finance programs. Study corporate finance, quantitative risk management, statistical forecasting, and more – everything you need for an exciting career in banking and finance.

- Investment Science and Corporate Finance; Forecasting; Real Analysis
- Controller, treasury manager, investment policy analyst
- ★ Business application developer, quantitative analyst, portfolio analyst

MATHEMATICAL OPTIMIZATION

(M, Bachelor of Mathematics)
Co-op optional
Find solutions to resource scarcity issues, from streamlining sports team schedules to making factories more efficient. You'll study mathematical modelling in optimization, probability, statistics, and computer science courses and hone your skills with case studies.

- Introduction to Computational Mathematics; Stochastic Simulation Methods; Portfolio Optimization Models
- ▲ Business; Operations Research
- Business analyst, information technology architect, risk analyst
- ★ Internet marketing and analytics intern, business analyst, product manager

MATHEMATICAL PHYSICS

(M, Bachelor of Mathematics)
Co-op optional
Master advanced math to decode everything from the cosmos to quantum computing. You'll study high-level math and physics in North America's only Faculty of Mathematics and one of Canada's most innovative departments of physics. Then choose a career in research, finance, or tech, leveraging mathematical tools to explore fundamental physics and complex systems.

- Introduction to Theoretical Mechanics; Quantum Theory; Scientific Machine Learning
- Operations specialist, information technology architect, software modeller
- ★ Defence scientist, design engineer, physics technician

MATHEMATICAL STUDIES

(M, Bachelor of Mathematics) Co-op optional

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
- ★ Math tutor, research assistant, web developer

MATHEMATICS/TEACHING

(M, Bachelor of Mathematics) Co-op mandatory

Inspire a love of mathematics in the next generation. Combine your math and computer science courses with eight months of classroom co-op experience – more than any Bachelor of Education preparatory program in Canada – before you apply to a Faculty of Education. Mathematics/Teaching may be combined with many of the departmental honours academic plans in the Faculty of Mathematics.

- Introduction to Mathematics Education; Educational Psychology; Mathematical Discovery and Invention
- Teacher, online learning consultant, instructional media developer
- ★ Math classroom assistant/teacher, curriculum developer, education technology support

PURE MATHEMATICS

(M, Bachelor of Mathematics) Co-op optional

Go way beyond basic arithmetic to study the boundary of math and pure reason, exploring the "how" and "why" of math. You'll cover the spectrum of mathematics – including algebra, number theory, analysis, geometry, and logic – while gaining valuable problem-solving skills.

- Fields and Galois Theory; Applied Complex Analysis; Differential Geometry
- Software model developer, operations analyst, researcher and academic
- ★ Instructional support assistant, research assistant, machine learning researcher

STATISTICS

(M, Bachelor of Mathematics) Co-op optional

Earn a highly significant degree at one of the world's top centres for statistics. Learn about research methods and statistical applications to help engineers develop better AI technologies, researchers evaluate medical treatments, governments shape effective policies, and more.

- Sampling and Experimental Design; Applied Linear Models; Statistical Learning
- Statistician, business intelligence specialist, software quality analyst
- ★ Data analyst, data science co-op, senior data scientist



Faculty of Science

A place of discovery and exploration

At Waterloo, science isn't just something you learn – it's something you do. Here, you'll dive into hands-on experiences that bring science to life. Earn credits beyond the classroom and around the world – observe the universe through the reflecting telescope in our rooftop observatory or work with cutting-edge lab technology to analyze matter at the molecular level. The Faculty of Science will challenge you to think, problem-solve, innovate, and maybe even spark discoveries the world hasn't seen yet! Get ready to make the world your laboratory. 

uwaterloo.ca/future/science

\$46M+

in research funding helps
fund meaningful research
jobs for students

Co-op employers

Recent Science co-op students have worked for employers such as:

- › Health Canada
- › Ontario Institute for Cancer Research
- › Herzberg Astronomy and Astrophysics Research Centre at the National Research Council Canada (NRC)
- › Odette Cancer Centre
- › Holland Bloorview Kids Rehabilitation Hospital





Be more than a student. Be IDEAL.

Learn beyond lectures and labs to gain skills and experiences that set you apart. The IDEAL Scholar Program recognizes your achievements in Innovation, Discovery, Engagement, Application, and Leadership – the qualities that truly matter to industry and academia. In Science, you'll push boundaries through entrepreneurship, research, hands-on labs, fieldwork, co-op, and global engagement.

Your future in Science starts here

You'll have the flexibility to shape your own path and achieve your goals while exploring your future as a scientist. Go beyond just biology, chemistry, or physics – explore exciting combinations of those fields or branch out into unique, one-of-a-kind programs to customize your degree to your interests. Whether you want to pursue graduate research, a professional program, or a career in industry, we have the pathways, tools, and direct support to you get there.



“My program gave me a strong foundation for medical school, from rigorous coursework to invaluable mentorship. The Waterloo Science partnership streamlined my path, making the transition seamless and financially supported. It's a fantastic pathway for aspiring doctors.”

Justen Wilmot (he/him) (BSc '24), Kitchener, Ontario, Biomedical Sciences, Minor in Medical Physiology, MD student at the Saba University School of Medicine and IDEAL Gold Medallion winner

Learn about our medical school pathways

uwaterloo.ca/future/med-school-pathways



#2

in Canada for physics
(*Academic Ranking of World Universities 2025*)

145+

hands-on labs in state-of-the-art facilities and field courses across the planet

Science programs

Entry programs

BIOMEDICAL SCIENCES

(E, Bachelor of Science) Regular only
 Paging future doctors – and dentists and chiropractors and other health-care professionals. This flexible program provides the foundation and experience required to succeed in virtually any professional health program. Plus, it gives you room to add a minor or pursue a variety of personal interests to round out your degree.

● Regional Human Anatomy; Developmental Biology and Embryology; Principles of Molecular Biology

■ Dentist, optometrist, pharmacist, physician, veterinarian

ENVIRONMENTAL SCIENCES

(E, Bachelor of Science) Co-op optional
 Tackle real-world issues like climate change, pollution, and resource use while exploring how Earth's systems interact. Learn how human activities impact sustainability, biodiversity, and water quality. Gain hands-on experience through fieldwork and study-abroad opportunities that connect you with nature and your community.

● Organismal and Evolutionary Ecology; Environmental Toxicology; Biostatistics and Experimental Design

▲ Ecology; Geoscience; Water Science

■ Geoscientist, ecologist, environmental consultant

★ Water treatment project assistant, field technician, soil and environmental quality assistant

HONOURS SCIENCE

(E, Bachelor of Science) Regular only
 Craft your own degree by taking courses that fit your interests, or align your labs and lectures to the requirements of the professional school of your choice. Whether you have a specific science career goal in mind or you just love science but don't want to devote yourself to a single discipline, this is the right program for you.

● Fundamentals of Microbiology; Modern Physics; Advanced Geochemistry

■ Physician, optometrist, pharmacist, genetic counsellor, teacher

★ SCIENCE AND AVIATION

(E, Bachelor of Science) Regular only
 Is your head in the clouds? Earn a Bachelor of Science degree and your integrated Airline Transport Pilot Licence through the largest university aviation program in Canada. Customize your studies to include courses from a range of scientific disciplines, such as physics or earth sciences. Whichever courses you choose, you'll graduate with more than 225 flight hours.

● Earth from Space Using Remote Sensing; Aviation Meteorology; Human Factors in Aviation

■ Pilot, flight training instructor, aerial surveyor

SCIENCE AND BUSINESS

(E, Bachelor of Science) Co-op optional
 Blend science and business for a career at the forefront of innovation. This unique degree combines biology, chemistry, physics, or earth sciences with business disciplines like marketing, law, and entrepreneurship. Gain the skills to launch your own ventures or drive industry breakthroughs.

● Introduction to Microeconomics; Introduction to Business Stages; General Chemistry

■ Medical information specialist, biotechnology accounts manager, project manager, program analyst

★ Operations co-ordinator, business analyst, product manager, sustainability project analyst

SCIENCE AND FINANCIAL MANAGEMENT / WITH SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Science and Financial Management) Co-op mandatory

Tap into the power of science and financial management to solve the world's biggest challenges. This program lets you explore the science that excites you while learning how to fund, scale, and bring your ideas to life. Gain real-world experience through co-op and work toward a Chartered Professional Accountant (CPA) or Chartered Financial Analyst (CFA) designation, so you can drive breakthroughs in fast-paced industries that bridge the gap between scientific innovations and strategic global solutions.

● Financial Analysis and Planning; Accounting Information Systems; Corporate Taxation; Molecular Biotechnology

▲ Biotechnology; Business Analytics; Earth and Water Science; Financial Markets; Physics of Systems and Energy; Professional Accountant

■ Accountant, financial manager, portfolio manager

★ Staff accountant, financial analyst, forensics consultant, tax consultant

Life Sciences majors

Apply to Life Sciences through OUAC and start your selected major (M) on day one.

BIOCHEMISTRY

(M, Bachelor of Science) Co-op optional
 Study the chemistry of life. Apply chemical and biological principles to processes while shedding light on living systems at the cellular and molecular levels. You'll learn about human metabolism; how proteins, carbohydrates, and DNA affect living organisms; and how to manufacture and study biomaterials.

● Fundamentals of Metabolism; Intro Analytical Chemistry; Genetics

▲ Biotechnology

■ Toxicologist, biomaterials researcher, health-care professional

★ Chemical laboratory technician, aquatic toxicity testing technologist, food technologist

BIOLOGY

(M, Bachelor of Science) Co-op optional
 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

★ Quality assurance assistant, sustainability co-ordinator, field and lab assistant, genetic counselling assistant

PSYCHOLOGY

(M, Bachelor of Science) Co-op optional
 Explore the science of behaviour and the mind while connecting the physiological and biological processes that underlie neuroscience. Study how psychology uses scientific methods to gain insights into the mind and behaviour, with an emphasis on the biological processes that enable cognitive function. Gain hands-on skills in labs and seek to understand the scientific foundations of psychology as you work toward your Honours Bachelor of Science degree.

● Organizational Psychology; Advanced Data Analysis; Natural Science Advanced Research Methods Topics

■ Neuroscientist, child psychologist, psychiatrist, clinical psychologist

★ Health promotion assistant, health coach, research analyst

Physical Sciences majors

Apply to Physical Sciences through OUAC and start your selected major (M) on day one.

BIOLOGICAL AND MEDICAL PHYSICS

(M, Bachelor of Science) Co-op optional
 Combine physics, biology, and chemistry to explore the human body like never before! You'll study medical imaging, radiation therapy, and biomechanics – preparing for careers in health care and research. Gain hands-on lab experience and discover the science behind life-saving technology.

● Organismal and Evolutionary Ecology; Environmental Toxicology; Biostatistics and Experimental Design

■ Medical physicist, physician, biophysicist

★ Medical physics assistant, computational biophysics ultrasound image reconstruction specialist, X-ray diffraction technology medical device design assistant

CHEMISTRY

(M, Bachelor of Science) Co-op optional
 Fire up the Bunsen burners in one of Canada's top chemistry programs. Study the composition, structure, and properties of matter while creating new products, safer medications, and alternative energy sources. This program is accredited by the Canadian Society for Chemistry and the Chemical Institute of Canada.

● Multi-Component Analysis; Structure and Bonding; Introductory Quantum Mechanics

▲ Computational Chemistry

■ Analytical chemist, chemistry patents agent, forensic scientist

★ Science and math online expert, laboratory assistant, R&D analytical chemist

EARTH SCIENCES

(M, Bachelor of Science) Co-op optional
 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.

● Physical Hydrogeology; Petrography; Mineralogy

▲ Geology; Geophysics; Hydrogeology

■ Hydrogeologist, geologist, geophysicist

★ Geophysical data processor, soil and environmental quality assistant, groundwater technician

MATERIALS AND NANOSCIENCES

(M, Bachelor of Science) Co-op optional

Tiny subject matter. Huge opportunities. Discover how to manipulate individual atoms and molecules, applying chemistry and physics at the nanoscale. There's no better place to learn than in Canada's Quantum Valley. You'll graduate with the tools and knowledge to work at the forefront of innovation, in fields like renewable energy and nanomedicine.

● Materials and Nanosciences in the Modern World; Chemistry and the Solid State; Biomaterials

■ Materials scientist, nanotechnologist, materials process specialist

★ Materials lab associate, nanoscale optics and photonics research assistant, product development assistant

MATHEMATICAL PHYSICS

(M, Bachelor of Science) Co-op optional

Unravel the universe with Mathematical Physics! Apply your love of math to quantum mechanics, relativity, and astrophysics. Solve complex problems, explore deep theories, and push the boundaries of physics. Graduate with elite problem-solving skills for cutting-edge research, tech careers, or grad school.

● Linear Algebra for Honours Mathematics; Introduction to Quantum Information Processing; Condensed Matter

■ Theoretical physicist, data scientist, quantitative analyst

★ Design engineer – quality assurance, project engineering assistant, science math peer tutor, application programmer, quality assurance analyst

MEDICINAL CHEMISTRY

(M, Bachelor of Science) Co-op mandatory

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 and Statistical Mechanics; Transition Element Compounds and Inorganic Materials; Fundamentals of Metabolism

■ Medicinal chemist, research chemist, synthetic chemist

★ Pharmaceutical research and development assistant, discovery analyst, quality control assistant analyst

PHYSICS

(M, Bachelor of Science) Co-op optional

Your curious mind matters to us. As Canada's top-ranked physics program, we offer a wide range of courses in applied physics, astrophysics, biophysics, chemical physics, mathematical physics, and quantum computing. Our professors have won the Nobel Prize and taken the first image of a black hole. How will you use your advanced problem-solving skills?

● Thermal Physics; Statistical Mechanics; Electricity and Magnetism

■ Physicist, research and development scientist, analyst, teacher

★ Math tutor, scientific programmer, research assistant, analytics research assistant, modelling support technician

PHYSICS AND ASTRONOMY

(M, Bachelor of Science) Co-op optional

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; Geometrical and Physical Optics; Galaxies

■ Astronomer, aerospace scientist, remote sensing scientist

★ RADARSAT operations support assistant, sun-earth development program assistant, science and math tutor, undergraduate research assistant, software development testing co-ordinator

Professional degrees

MEDICAL SCIENCES (WATERLOO) AND DOCTOR OF MEDICINE (ST. GEORGE'S)

(E, Bachelor of Medical Sciences and Doctor of Medicine) Regular only

Your fast track to a medical career starts here! The first of its kind in Canada, this program is a six-year pathway from high school to your Doctor of Medicine (MD). After two years of Medical Sciences at Waterloo, you'll proceed to clinical training at St. George's University (SGU) in the Caribbean. Earn both a Bachelor of Medical Sciences and an MD. Apply directly through SGU. Visit uwaterloo.ca/future/sgu for more details.

● Human Anatomy; Human Physiology; Communication for Health Professionals; Introduction to Psychopathology

■ Physician, general practitioner, surgeon

OPTOMETRY / WITH SCHOOL OF OPTOMETRY AND VISION SCIENCE

(E, Doctor of Optometry) Regular only

Set your sights on a career in vision health. After three years in an accredited Bachelor of Science program, you can apply to Canada's only English-language Doctor of Optometry program. Learn about ocular health and disease, optics, and vision, while applying your knowledge in clinical settings. Questions? Email optometry.admissions@uwaterloo.ca.

● Diseases of the Eye; Practice Management; Neurophysiology of Vision

■ Registered optometrist; careers in private practice, academia, and industry

PHARMACY / WITH SCHOOL OF PHARMACY

(E, Doctor of Pharmacy) Co-op mandatory

A prescription for career success! After two years in a Bachelor of Science or other approved post-secondary program, you can apply to Canada's only co-op pharmacy program. Enhance your classroom learning with paid work terms and clinical rotations, developing skills in community practice, hospitals, or family health teams. Questions? Email pharmacy@uwaterloo.ca.

● Integrated Patient Focused Care; Professional Practice; Pharmaceuticals

■ Registered pharmacist; work in community practice, hospitals, and family health teams

★ Patient care co-ordinator; reconciliation pharmacy student; corporate head office, government, advocacy, and special projects assistant



“There’s no substitute for the professional development skills that are garnered through co-op! ‘Soft skills’ like navigating corporate dynamics, exerting executive presence, and working collaboratively to achieve a strategic goal can often be more challenging than acing an organic chemistry final. Co-op will transform the way you show up in your career and is a rare and indispensable program.”

Dr. Cicely Shillingford (she/her) (BSc '15), Mississauga, Ontario, Biochemistry, Associate Vice President, Product Development, Innovation, and Regulatory at amika

Ontario admission requirements

Admission averages depend on the number of applications we receive and the number of spaces available. The ranges listed below are based on previous years.

You must have a minimum of **six** Grade 12 U or M level courses (excluding co-op) and the required course(s) for your program to be considered on the basis of your Ontario Secondary School Diploma. Required courses will be included in the calculation of your admission average. **W**



**Get the most up-to-date
admissions information**

and view requirements for
other systems of study

uwaterloo.ca/future/requirements

NOTES

AIF: Admission Information Form – submit to tell us who you are outside of academics.

†Choose your major: see lists on pages 15–41. Some majors are competitive and require an application after first year.

uwaterloo.ca/future/admissions

ARTS	Program/minimum admission average/additional requirements	Required courses
	Accounting and Financial Management Mid-80s.	Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%)
	Global Business and Digital Arts Low 80s.	Any Grade 12 U English (min. 75%)
	Honours Arts† (Waterloo, St. Jerome's) High 70s Honours Arts and Business† (Waterloo, St. Jerome's) High 70s Majors: Anthropology; Classical Studies (2 majors); Communication Studies (2 majors); Economics; English (4 majors); Fine Arts (2 majors); French; Gender and Social Justice; History; Legal Studies; Liberal Studies; Medieval Studies; Music; Peace and Conflict Studies; Philosophy; Political Science; Psychology; Religion, Culture, and Spirituality; Sexualities, Relationships, and Families; Social Development Studies; Sociology; Theatre and Performance.	Any Grade 12 U English (min. 70%)
	Social Development Studies and Bachelor of Social Work Double Degree (Renison) Low 80s.	
ENGINEERING	Program/minimum admission average/additional requirements	Required courses
	Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology Mid- to high 80s. Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design High 80s to low 90s. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.	English (ENG4U – min. 70%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); Physics (min. 70%)
	Architecture Mid-80s. Qualified applicants will be invited to submit a portfolio.	English (ENG4U – min. 78%); Advanced Functions (min. 70%) or Calculus and Vectors (min. 70%); Physics (min. 70%)
	Software Engineering Low to mid-90s. AIF required. Experience developing well-structured modular programs required. Online video interview required. Individual selection may vary.	English (ENG4U – min. 70%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); Physics (min. 70%)
ENVIRONMENT	Program/minimum admission average/additional requirements	Required courses
	Climate and Environmental Change High 70s.	English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%); Chemistry or Physics
	Environment and Business; Environment, Resources and Sustainability; Geography and Environmental Management High 70s.	Any Grade 12 U English (min. 70%)
	Geography and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.	English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%)
	Geospatial Data Science High 70s.	Any Grade 12 U English (min. 70%); any Grade 12 U Mathematics (min. 70%)
	Planning Low 80s.	Any Grade 12 U English (min. 75%)
	Sustainability and Financial Management Mid-80s.	Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%)

Are you an Ontario student taking International Baccalaureate (IB) courses? Admission to Waterloo is based on your Ontario Grade 12 U and M courses. If you're taking IB Math, your school will convert this course to MCV4U, MHF4U, and/or MDM4U. You can take any IB Math course and be eligible for admission as long as you receive Ontario credits for both MCV4U and MHF4U.

Programs requiring previous university study

Optometry Minimum overall university average of 75%. See School of Optometry and Vision Science website for required courses. Completion of at least three full years of university-level science with specific course requirements, Optometry Admission Test (OAT), Admission Information Form (AIF), CASPer test, interview, and optometrist and character references.

uwaterloo.ca/future/optometry

Pharmacy Minimum overall university average of 75%. See School of Pharmacy website for required courses. Completion of at least two years of university or post-secondary studies with specific course requirements, Admission Information Form (AIF), reference, CASPer test, and interview. High school students whose admission average is at least 90% may qualify for Conditional Admission to Pharmacy (CAP) status. See School of Pharmacy website for more information.

uwaterloo.ca/future/pharmacy

Program/minimum admission average/additional requirements	Required courses
Health Sciences Mid-80s regular, High 80s co-op.	Any Grade 12 U English (min. 70%); Biology (min. 70%); Chemistry (min. 70%); any Grade 12 U Mathematics (min. 70%)
Kinesiology Low 80s regular, Mid-80s co-op.	Any Grade 12 U English (min. 70%); any two of the following: Biology (min. 70%), Chemistry (min. 70%), or Physics (min. 70%); and one of the following: Advanced Functions (min. 70%) or Calculus and Vectors (min. 70%)
Public Health Low 80s regular, Mid-80s co-op.	Any Grade 12 U English (min. 75%); any Grade 12 U Mathematics (min. 70%)
Recreation and Leisure Studies[†] Low 80s. Majors: Recreation, Leadership, and Health; Sport and Recreation Management; Therapeutic Recreation.	Any Grade 12 U English (min. 70%)

Program/minimum admission average/additional requirements	Required courses
Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Low to mid-90s. AIF required. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	
Business Administration (Laurier) and Mathematics (Waterloo) Double Degree Mid- to high 80s. AIF required. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	
Computer Science Low to mid-90s. AIF required. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	
Computing and Financial Management Low to mid-90s. AIF required. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	Any Grade 12 U English; Advanced Functions; Calculus and Vectors; one other Grade 12 U course
Mathematics[†] Mid-80s. AIF required. Majors: Actuarial Science, Applied Mathematics, Applied Mathematics with Scientific Computing and Scientific Machine Learning, Biostatistics, Combinatorics and Optimization, Computational Mathematics, Data Science, Information Technology Management, Mathematical Economics, Mathematical Finance, Mathematical Optimization, Mathematical Physics, Mathematical Studies, Mathematics/Teaching, Pure Mathematics, Statistics. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	
Mathematics/Business Administration; Mathematics/Chartered Professional Accountancy; Mathematics/Financial Analysis and Risk Management Mid-80s. AIF required. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended. Individual selection may vary.	

Program/minimum admission average/additional requirements	Required courses
Biomedical Sciences Low 80s.	
Environmental Sciences Low 80s.	
Honours Science Low 80s.	
Life Sciences[†] Low 80s. Majors: Biochemistry, Biology, Psychology.	English (ENG4U – min. 70%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); any two of the following: Biology, Chemistry, Earth and Space Science, Mathematics of Data Management, or Physics
Physical Sciences[†] Low 80s. Majors: Biological and Medical Physics, Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medicinal Chemistry, Physics, Physics and Astronomy.	
Science and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.	
Science and Business Low 80s.	
Science and Financial Management Low to mid-80s.	

Out-of-province

admission requirements

uwaterloo.ca/future/admissions

NOTES

Complete admission requirements, recommendations, and documents are available online. Advanced Placement courses may be substituted for required courses. Some programs may require higher admission averages based on the competition for available spaces. The admission averages below are based on last year's averages and may change. **AIF**: Admission Information Form

*Final grade at least 70%

**Final grade at least 75%

***Final grade at least 78%

†Choose your major: see lists on pages 15-41. Some majors are competitive and require an application after first year.

Program/minimum admission average/ additional requirements	Alberta and Nunavut	British Columbia, Northwest Territories, and Yukon	Manitoba	New Brunswick
ARTS				
Accounting and Financial Management Mid-80s .	English Language Arts 30-1**; Mathematics 30-1**; Mathematics 31**	English Studies 12** or English First Peoples 12**; Pre-Calculus 12**; Calculus 12* or AP Calculus**	English 40S**; Pre- Calculus Mathematics 40S**; one of Calculus 45A**, 45S**, or AP Calculus**	English 121** or 122**; Pre-Calculus 120B**; Calculus 120**
Global Business and Digital Arts Low 80s .	English Language Arts 30-1**	English Studies 12** or English First Peoples 12**	English 40S**	English 121** or 122**
Honours Arts † (Waterloo, St. Jerome's) High 70s . Honours Arts and Business † (Waterloo, St. Jerome's) High 70s .	English Language Arts 30-1*	English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*
Social Development Studies and Bachelor of Social Work Double Degree (Renison) Low 80s .	English Language Arts 30-1*	English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*
ENGINEERING				
Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology Mid- to high 80s . Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design High 80s to low 90s . AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.	English Language Arts 30-1*; Mathematics 30-1*; Mathematics 31*; Chemistry 30*; Physics 30*	English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; Chemistry 12*; Physics 12*	English 40S*; Pre- Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S*; Physics 40S*	English 121* or 122*; Pre-Calculus 120B*; Calculus 120*; Chemistry 121* or 122*; Physics 121* or 122*
Architecture Mid-80s . Qualified applicants will be invited to submit a portfolio.	English Language Arts 30-1***; Mathematics 30-1* or Mathematics 31*	English Studies 12*** or English First Peoples 12***; one of Pre-Calculus 12*, Calculus 12*, or AP Calculus*; Physics 12*	English 40S***; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, 45S*, or AP Calculus*; Physics 12*	English 121*** or 122***; Pre- Calculus 120B* or Calculus 120*; Physics 121* or 122*
Software Engineering Low to mid-90s . AIF required. Experience developing well-structured modular programs required. Online video interview required. Individual selection may vary.	English Language Arts 30-1*; Mathematics 30-1*; Mathematics 31*; Chemistry 30*; Physics 30*	English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; Chemistry 12*; Physics 12*	English 40S*; Pre- Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S*; Physics 40S*	English 121* or 122*; Pre-Calculus 120B*; Calculus 120*; Chemistry 121* or 122*; Physics 121* or 122*

Alberta and Nunavut High school diploma with five academic courses at the 30 or 31 level. For English Language Arts 30-1, we'll use only the final blended grade (in-class and exam mark). Arrange to have your school send us your official transcripts showing completed and current courses. Physical Education 30 and Career and Technology Studies courses are not acceptable academic courses. For admission purposes, two three-credit 30-level academic courses may be considered equivalent to one five-credit 30-level academic course.

British Columbia, Northwest Territories, and Yukon High school diploma with six courses at the Grade 12 academic level, including all required courses. Academic subjects do not include courses from the Applied Design, Skills, and Technologies (ADST) curriculum, with the exception of Economics 12 and Financial Accounting 12. While B.C. will automatically send us your marks electronically, they will not arrive in time for our admissions decisions. Applicants will receive instructions by email on how to submit unofficial marks. **NOTE:** Due to ongoing curriculum renewal in the Northwest Territories, applicants may present a combination of credits from different provincial curricula (e.g., Alberta and/or British Columbia), provided all required Grade 12 courses are completed and a recognized high school diploma is awarded.

Manitoba High school diploma with five academic courses at the 40 level or higher. For programs requiring English 40S, Language and Technical Communication 40S will not be accepted.

New Brunswick High school diploma with five academic courses at the Grade 12, 120, 121, or 122 level.

Newfoundland and Labrador High school diploma with six academic courses at the 3200 level.

Nova Scotia High school diploma with five academic or advanced courses at the Grade 12 level.

Prince Edward Island High school diploma with five academic or advanced courses at the 611 or 621 level.

Quebec (CEGEP) One year of CEGEP with a minimum of 12 semestered academic courses. CEGEP admission averages may differ from high school admission averages. Transfer credits may be granted for most programs: uwaterloo.ca/future/transfer. With new changes to CEGEP course codes, please refer to our website for the most up-to-date admission information: uwaterloo.ca/future/requirements.

Saskatchewan High school diploma with five academic courses at the 30 level.

International Baccalaureate (IB) 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 accepted. For programs listing HL or SL Mathematics: Analysis and Approaches, HL Applications and Interpretations will not be accepted unless stated otherwise. SL Applications and Interpretations will not be accepted for any program.

NOTES: HL = Higher Level; SL = Standard Level; **min.** = minimum IB final grade 1-7; **total** = overall grade totals, not including Diploma Points.

Newfoundland and Labrador	Nova Scotia	Prince Edward Island	Quebec (CEGEP)	Saskatchewan	International Baccalaureate
English 3201**; Advanced Mathematics 3201** or 3200**; Mathematics 3208** or AP Calculus**	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12**; Calculus 12**	English 621A**; Mathematics 611B**; Mathematics 621B**	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**. Overall CEGEP average min. 80-85%.	One English language arts, level 30**; Pre-Calculus 30**; Calculus 30** or AP Calculus**	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: Analysis and Approaches (HL recommended), min. 4. Total 28.
English 3201**	English 12 Academic** or English 12 African Heritage**	English 621A**	English 603** or 604**, Overall CEGEP average min. 80%.	One English language arts, level 30**	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*. Overall CEGEP average min. 75%.	One English language arts, level 30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*. Overall CEGEP average min. 75%.	One English language arts, level 30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*; Advanced Mathematics 3201* or 3200*; Mathematics 3208* or AP Calculus*; Chemistry 3202*; Physics 3204*	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12*; Calculus 12*; Chemistry 12 Academic*; Physics 12 Academic*	English 621A*; Mathematics 611B*; Mathematics 621B*; Chemistry 611A* or 621A*; Physics 621A*	English 603* or 604*; two of Linear Algebra*, Calculus 1*, or Calculus 2*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*; Chemistry I* or Chemistry II*. Individual selection from the low 80s.	One English language arts, level 30*; Pre-Calculus 30*; Calculus 30* or AP Calculus*; Chemistry 30*; Physics 30*	English A, min. 4; Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry min. 4; one other HL or SL course, min. 4. Total 31. 6s and 7s recommended.
English 3201***; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*; Physics 3204*	English 12 Academic*** or English 12 African Heritage***; Pre-Calculus 12* or Calculus 12*; Physics 12 Academic*	English 621A***; Mathematics 611B* or Mathematics 621B*; Physics 621A*	English 603*** or 604***; one of Linear Algebra*, Calculus I*, or Calculus II*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*. Individual selection from the mid-80s.	One English language arts, level 30***; one of Pre-Calculus 30*, Calculus 30*, or AP Calculus*; Physics 30*	HL or SL English A, min. 4; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretations, min. 4; Physics (HL recommended), min 4. Total 31.
English 3201*; Advanced Mathematics 3201* or 3200*; Mathematics 3208* or AP Calculus*; Chemistry 3202*; Physics 3204*	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12*; Calculus 12*; Chemistry 12 Academic*; Physics 12 Academic*	English 621A*; Mathematics 611B*; Mathematics 621B*; Chemistry 611A* or 621A*; Physics 621A*	English 603* or 604*; two of Linear Algebra*, Calculus 1*, or Calculus II*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*; Chemistry I* or Chemistry II*. Individual selection from the low 80s.	One English language arts, level 30*; Pre-Calculus 30*; Calculus 30* or AP Calculus*; Chemistry 30*; Physics 30*	English A, min. 4; Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry min. 4; one other HL or SL course, min. 4. Total 31. 6s and 7s recommended.

Out-of-province admission requirements continued

Program/minimum admission average/ additional requirements	Alberta and Nunavut	British Columbia, Northwest Territories, and Yukon	Manitoba	New Brunswick
For additional province-specific information, refer to the notes on page 45. Complete admission requirements, recommendations, and documents are available online.				
ENVIRONMENT				
Climate and Environmental Change High 70s.	English Language Arts 30-1*; one of Mathematics 30-1*, Mathematics 31*, or Mathematics 30-2*; Chemistry 30 or Physics 30	English Studies 12* or English First Peoples 12*; Grade 12 Mathematics* or AP Calculus*; Chemistry 12 or Physics 12	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S or Physics 40S	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*; one of Chemistry 121, Chemistry 122, Physics 121, or Physics 122
Environment and Business; Environment, Resources and Sustainability; Geography and Environmental Management High 70s.	English Language Arts 30-1*	English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*
Geography and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.	English Language Arts 30-1*; one of Mathematics 30-1*, Mathematics 31*, or Mathematics 30-2*	English Studies 12* or English First Peoples 12*; Grade 12 Mathematics* or AP Calculus*	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, 45S*, or AP Calculus*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*
Geospatial Data Science High 70s.	English Language Arts 30-1*; one of Mathematics 30-1*, Mathematics 31*, or Mathematics 30-2*	English Studies 12* or English First Peoples 12*; Grade 12 Mathematics* or AP Calculus*	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*
Planning Low 80s.	English Language Arts 30-1**	English Studies 12** or English First Peoples 12**	English 40S**	English 121** or 122**
Sustainability and Financial Management Mid-80s.	English Language Arts 30-1**; Mathematics 30-1**; Mathematics 31**	English Studies 12** or English First Peoples 12**; Pre-Calculus 12**; Calculus 12** or AP Calculus**	English 40S**; Pre-Calculus Mathematics 40S**; one of Calculus 45A**, 45S**, or AP Calculus**	English 121** or 122**; Pre-Calculus 120B**; Calculus 120**
HEALTH				
Health Sciences Mid-80s regular, High 80s co-op.	English Language Arts 30-1*; one of Mathematics 30-1*, Mathematics 31*, or Mathematics 30-2*; Biology 30*; Chemistry 30*	English Studies 12* or English First Peoples 12*; Grade 12 Mathematics* or AP Calculus*; Anatomy and Physiology 12*; Chemistry 12*	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*; Biology 40S*; Chemistry 40S*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*; Biology 121* or 122*; Chemistry 121* or 122*
Kinesiology Low 80s regular, Mid-80s co-op.	English Language Arts 30-1*; Mathematics 30-1* or Mathematics 31*; two of Biology 30*, Chemistry 30*, or Physics 30*	English Studies 12* or English First Peoples 12*; one of Pre-Calculus 12*, Calculus 12*, or AP Calculus*; two of Anatomy and Physiology 12*, Chemistry 12*, or Physics 12*	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*; two of Biology 40S*, Chemistry 40S*, or Physics 40S*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*; two of Biology 121* or 122*, Chemistry 121* or 122*, or Physics 121* or 122*
Public Health Low 80s regular, Mid-80s co-op.	English Language Arts 30-1**; one of Mathematics 30-1*, Mathematics 31*, or Mathematics 30-2*	English Studies 12** or English First Peoples 12**; Grade 12 Mathematics* or AP Calculus*	English 40S**; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*	English 121** or 122**; Pre-Calculus 120B* or Calculus 120*
Recreation and Leisure Studies [†] Low 80s.	English Language Arts 30-1*	English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*

Newfoundland and Labrador	Nova Scotia	Prince Edward Island	Quebec (CEGEP)	Saskatchewan	International Baccalaureate
English 3201*; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*; Chemistry 3202 or Physics 3204	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*; Chemistry 12 Academic or Physics 12 Academic	English 621A*; Mathematics 611B* or 621B*; one of Chemistry 611A, 621A, or Physics 621A	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; one of Chemistry I or II, Mechanics, Electricity & Magnetism, or Waves, Optics & Modern Physics. Overall CEGEP average min. 75%.	One English language arts, level 30*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*; Chemistry 30 or Physics 30	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4; Chemistry or Physics. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*. Overall CEGEP average min. 75%.	One English language arts, level 30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A*; Mathematics 611B* or 621B*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*. Overall CEGEP average low 80s.	One English language arts, level 30*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4. Total 27.
English 3201*; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A*; Mathematics 611B* or 621B*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*. Overall CEGEP average min. 75%.	One English language arts, level 30*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4. Total 27.
English 3201**	English 12 Academic** or English 12 African Heritage**	English 621A**	English 603** or 604**. Overall CEGEP average min. 80%.	One English language arts, level 30**	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201**; Advanced Mathematics 3201** or 3200**; Mathematics 3208** or AP Calculus**	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12**; Calculus 12**	English 621A**; Mathematics 611B**; Mathematics 621B**	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**. Overall CEGEP average min. 80-85%.	One English language arts, level 30**; Pre-Calculus 30**; Calculus 30** or AP Calculus**	HL or SL English A, min. 4, or HL English B, min. 5; HL (recommended) or SL Mathematics: Analysis and Approaches, min. 4. Total 28.
English 3201*; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*; Biology 3201*; Chemistry 3202*	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*; Biology 12 Academic*; Chemistry 12 Academic*	English 621A*; Mathematics 611B* or 621B*; Biology 621A*; Chemistry 611A* or 621A*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; Biology I* or II*; Chemistry I* or II*. Overall CEGEP average min. 75%.	One English language arts, level 30*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*; Biology 30*; Chemistry 30*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4; HL or SL Chemistry, min. 4; HL or SL Biology, min. 4. Total 28.
English 3201*; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*; two of Biology 3201*, Chemistry 3202*, or Physics 3204*	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12* or Calculus 12*; two of Biology 12 Academic*, Chemistry 12 Academic*, or Physics 12 Academic*	English 621A*; Mathematics 611B* or 621B*; two of Biology 621A*, Chemistry 611A* or 621A*, or Physics 621A*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; two of Biology I* or II*, Chemistry I* or II*, Mechanics*, Electricity and Magnetism*, or Waves, Optics & Modern Physics*. Overall CEGEP average min. 75%.	One English language arts, level 30*; one of Pre-Calculus 30*, Calculus 30*, or AP Calculus*; two of Biology 30*, Chemistry 30*, or Physics 30*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4; two of HL or SL Biology, HL or SL Physics, or HL or SL Chemistry, min. 4 in each. Total 27.
English 3201**; one of Advanced Mathematics 3201*, 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic** or English 12 African Heritage**; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A**; Mathematics 611B* or 621B*	English 603** or 604**; one of Linear Algebra*, Calculus I*, or Calculus II*. Overall CEGEP average min. 75%.	One English language arts, level 30**; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*. Overall CEGEP average min. 75%.	One English language arts, level 30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.

Out-of-province admission requirements continued

Program/minimum admission average/ additional requirements	Alberta and Nunavut	British Columbia, Northwest Territories, and Yukon	Manitoba	New Brunswick
For additional province-specific information, refer to the notes on page 45. Complete admission requirements, recommendations, and documents are available online.				
MATHEMATICS				
Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Low to mid-90s. Business Administration (Laurier) and Mathematics (Waterloo) Double Degree Mid- to high 80s. AIF required. Individual selection may vary. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended.	English Language Arts 30-1; Mathematics 30-1; Mathematics 31	English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	English 40S; Pre-Calculus Mathematics 40S; one of Calculus 45A, 45S, or AP Calculus	English 121 or 122; Pre-Calculus 120B; Calculus 120
Computer Science Low to mid-90s. AIF required. Individual selection may vary. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended.	English Language Arts 30-1; Mathematics 30-1; Mathematics 31	English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	English 40S; Pre-Calculus Mathematics 40S; one of Calculus 45A, 45S, or AP Calculus	English 121 or 122; Pre-Calculus 120B; Calculus 120
Computing and Financial Management Low to mid-90s. AIF required. Individual selection may vary. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended.	English Language Arts 30-1**; Mathematics 30-1; Mathematics 31	English Studies 12** or English First Peoples 12**; Pre-Calculus 12; Calculus 12 or AP Calculus	English 40S**; Pre-Calculus Mathematics 40S; one of Calculus 45A, 45S, or AP Calculus	English 121** or 122**; Pre-Calculus 120B; Calculus 120
Mathematics,† Mathematics/Business Administration, Mathematics/Chartered Professional Accountancy, Mathematics/Financial Analysis and Risk Management Mid-80s. AIF required. Individual selection may vary. Participation in the Euclid Contest and Canadian Senior Mathematics Contest is strongly recommended.	English Language Arts 30-1; Mathematics 30-1; Mathematics 31	English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	English 40S; Pre-Calculus Mathematics 40S; one of Calculus 45A, 45S, or AP Calculus	English 121 or 122; Pre-Calculus 120B; Calculus 120
SCIENCE				
Biomedical Sciences, Environmental Sciences, Honours Science, Life Sciences,† Physical Sciences,† Science and Business Low 80s. Science and Financial Management Low to mid-80s.	English Language Arts 30-1*; Mathematics 30-1*; Mathematics 31*; two of Biology 30, Chemistry 30, or Physics 30	English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; two of Anatomy and Physiology 12, Chemistry 12, Geology 12, Physics 12, Environmental Science 12, or either Statistics 12 or Foundations of Mathematics 12	English 40S*; Pre-Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; two of Biology 40S, Chemistry 40S, or Physics 40S	English 121* or 122*; Pre-Calculus 120B*; Calculus 120*; two of Biology 121 or 122, Chemistry 121 or 122, Physics 121 or 122, or Foundations of Math 120
Science and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.				

Newfoundland and Labrador	Nova Scotia	Prince Edward Island	Quebec (CEGEP)	Saskatchewan	International Baccalaureate
English 3201; Advanced Mathematics 3201 or 3200; Mathematics 3208 or AP Calculus	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	English 621A; Mathematics 611B; Mathematics 621B	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II. Individual selection from 85%.	One English language arts, level 30; Pre-Calculus 30; Calculus 30 or AP Calculus	HL or SL English A; HL Mathematics: Analysis and Approaches, min. 6. Total 32.
English 3201; Advanced Mathematics 3201 or 3200; Mathematics 3208 or AP Calculus	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	English 621A; Mathematics 611B; Mathematics 621B	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II. Individual selection from 85%.	One English language arts, level 30; Pre-Calculus 30; Calculus 30 or AP Calculus	HL or SL English A; HL Mathematics: Analysis and Approaches, min. 6. Total 32.
English 3201**; Advanced Mathematics 3201 or 3200; Mathematics 3208 or AP Calculus	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12; Calculus 12	English 621A**; Mathematics 611B; Mathematics 621B	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**. Individual selection from 85%.	One English language arts, level 30**; Pre-Calculus 30; Calculus 30 or AP Calculus	HL or SL English A, min. 4; HL Mathematics: Analysis and Approaches, min. 6. Total 32.
English 3201; Advanced Mathematics 3201 or 3200; Mathematics 3208 or AP Calculus	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	English 621A; Mathematics 611B; Mathematics 621B	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II. Individual selection from the low 80s.	One English language arts, level 30; Pre-Calculus 30; Calculus 30 or AP Calculus	HL or SL English A; HL Mathematics: Analysis and Approaches, min. 6. Total 30.
English 3201*; Advanced Mathematics 3201* or 3200*; Mathematics 3208* or AP Calculus*; two of Biology 3201, Chemistry 3202, Earth Systems 3209, or Physics 3204	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12*; Calculus 12*; two of Biology 12 Academic, Chemistry 12 Academic, Geology 12 Academic, or Physics 12 Academic	English 621A* or 611*; Mathematics 611B**; Mathematics 621B**; two of Biology 621A, Chemistry 611A or 621A, or Physics 621A	English 603* or 604*; two of Linear Algebra*, Calculus I*, or Calculus II*; two of Biology I or II, Chemistry I or II, Mechanics, Electricity & Magnetism, or Waves, Optics & Modern Physics. Overall CEGPE average min. 75%.	One English language arts, level 30*; Pre-Calculus 30*; Calculus 30* or AP Calculus*; two of Biology 30, Chemistry 30, Foundations of Mathematics 30, or Physics 30	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches, min. 4; two of Biology, Chemistry, or Physics. Total 27.

American and British admission requirements

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 15–41. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

American system

High school diploma with six 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

British system – A Levels

General Certificate of Secondary Education (GCSE) or equivalent with passes in at least five unique subjects, three of which must be at the Advanced Level.

All programs require English at the GCSE, AS, or A Level. We may consider GCSE English as a Second Language, provided that you also submit a satisfactory English language test score.

NOTE:

min.: minimum final grade

Program/additional requirements

ARTS

Accounting and Financial Management

Global Business and Digital Arts

Honours Arts[†] (Waterloo, St. Jerome's)

Honours Arts and Business[†] (Waterloo, St. Jerome's)

Social Development Studies and Bachelor of Social Work Double Degree (Renison)

ENGINEERING

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

Architecture Qualified applicants will be invited to submit a portfolio.

Software Engineering AIF required. Experience developing well-structured, modular programs is required. Online video interview required. Individual selection may vary.

ENVIRONMENT

Climate and Environmental Change

Environment and Business

Environment, Resources and Sustainability; Geography and Environmental Management

Geography and Aviation Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.

Geospatial Data Science

Planning

Sustainability and Financial Management

HEALTH

Health Sciences

Kinesiology

Public Health

Recreation and Leisure Studies[†]

MATHEMATICS

Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) – Double Degrees AIF required. Individual selection may vary.

Computer Science AIF required. Individual selection may vary.

Computing and Financial Management AIF required. Individual selection may vary.

Mathematics,[†] Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management AIF required. Individual selection may vary.

Mathematics/Chartered Professional Accountancy AIF required. Individual selection may vary.

SCIENCE

Biomedical Sciences, Environmental Sciences, Honours Science, Life Sciences,[†] Physical Sciences,[†] Science and Business, Science and Financial Management

Science and Aviation Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.

American system	British system – A Levels
Grade 12 English, min. 80%; AP Calculus (or equivalent) and Algebra (Pre-Calculus), min. 80% in each. Average 88% .	English at the GCSE, AS, or A Level, min. B/5; A Level Math, min. B; two other A Level courses, min. B in each.
Grade 12 English, min. 80%. Average 85% .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, min. 75%. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, min. 75%. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, min. 75%. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, AP Calculus (or equivalent), Algebra (Pre-Calculus), AP Physics (or equivalent), Chemistry, and one other Grade 12 academic course, min. 75% in each. Average 88% in the six required courses.	GCSE Level English, min. B/5; A Level Math and A Level Physics, min. A in each; one additional A Level course, min. B; Chemistry (GCSE Level required, A Level recommended), min. B/5. As and A*s recommended.
Grade 12 English, min. 82%; Algebra (Pre-Calculus) or AP Calculus (or equivalent), min. 76%; AP Physics (or equivalent), min. 76%; three additional Grade 12 courses. Average 88% .	English at the GCSE, AS, or A Level, min. B/5; A Level Math and A Level Physics, min. B in each; one additional A Level course, min. B; one additional course at the GCSE, AS, or A Level, min. B/5.
Grade 12 English, AP Calculus (or equivalent), Algebra (Pre-Calculus), AP Physics (or equivalent), Chemistry, and one other Grade 12 academic course, min. 75% in each. Average 88% in the six required courses.	GCSE Level English, min. B/5; A Level Math and A Level Physics, min. A in each; one additional A Level course, min. B; Chemistry (GCSE Level required, A Level recommended), min. B/5. As and A*s recommended.
Grade 12 English and Grade 12 Mathematics, min. 75% in each; senior-level Chemistry or senior-level Physics. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; A Level Math or Further Math, min. B; A Level Physics or Chemistry, plus one other A Level course, min. one B and one C.
Grade 12 English, min. 75%. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, min. 75%. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English and Grade 12 Mathematics, min. 75% in each. Average high 80s .	English at the GCSE, AS, or A Level, min. B/5; A Level Math or Further Math, min. B; two other A Level courses, min. B and C.
Grade 12 English and Grade 12 Mathematics, min. 75% in each. Average low 80s .	English at the GCSE, AS, or A Level, min. B/5; A Level Math or Further Math, min. B; two other A Level courses, min. one B and one C.
Grade 12 English, min. 80%. Average mid-80s .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English, min. 80%; AP Calculus (or equivalent) and Algebra (Pre-Calculus), min. 80% in each. Average 88% .	English at the GCSE, AS, or A Level, min. B/5; A Level Math, min. B; two other A Level courses, min. B in each.
Grade 12 English, Grade 12 Mathematics, senior-level Chemistry, and senior-level Biology, min. 75% in each. Average 88% .	English at either the GCSE, AS, or A Level, min. B/5; A Level Math or Further Math, min. B; Biology and Chemistry, one at the A Level, the other at either the GCSE, AS, or A Level, min. B/5; one other academic A Level course, min. B/5.
Grade 12 English; AP Calculus (or equivalent) or Algebra (Pre-Calculus); two of senior-level Chemistry, Biology, or Physics, min. 75% in each. Average 85% .	English at the GCSE, AS, or A Level, min. B/5; A Level Math, min. B; two of Biology, Chemistry, or Physics (one must be A Level, min. B); one other academic A Level course, min. C.
Grade 12 English, min. 80%; Grade 12 Mathematics, min. 75%. Average 85% .	English at the GCSE, AS, or A Level, min. B/5; A Level Math or Further Math, min. B; two other A Level courses (one must be min. B and the other must be min. C).
Grade 12 English, min. 75%. Average 85% .	English at the GCSE, AS, or A Level, min. B/5; three A Level courses, min. two Bs and one C.
Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 90% .	English at the GCSE, AS, or A Level; A Level Math, min. A; two other academic A Level courses, min. A in each.
Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 90% .	English at the GCSE, AS, or A Level; A Level Math, min. A; two other academic A Level courses, min. A in each.
Grade 12 English, min. 80%; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 90% .	English at the GCSE, AS, or A Level, min. B/5. A Level Math and two other academic A Level courses, min. A in each.
Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 88% .	English at the GCSE, AS, or A Level; A Level Math, min. A; two other academic A Level courses, min. A in each.
Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 88% .	English at the GCSE, AS, or A Level; A Level Math, min. A; two other academic A Level courses, min. A in each.
Grade 12 English, min. 75%; AP Calculus (or equivalent), min. 75%; Algebra (Pre-Calculus), min. 75%; two of Biology, Chemistry, Physics, or Statistics; one other Grade 12 academic or AP course. Average 85% , including required courses.	English at the GCSE level, min. B/5; A Level Math, min. B; two of Biology, Chemistry, or Physics (one must be A Level), min. B; one other academic A Level course, min. B. Higher grades required for Science and Financial Management.

Indian and Caribbean admission requirements

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 15–41. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

Indian system

First or Second Division standing in one of the following: (1) All India Senior School Certificate awarded by CBSE, (2) Indian School Certificate awarded by CISCE, or (3) other pre-university certificate awarded after 12 years of academic studies. Final grades will only be evaluated based on board results.

NOTE: Std XII: Standard XII
min.: minimum final grade

overall: overall minimum final average

Caribbean system

Students applying from the Caribbean system must have passes in at least five unique CAPE and CSEC exams. This must include any English at the CSEC or CAPE level, and, at minimum, two CAPE Unit 2 exams.

Submit your predicted CAPE results from your school, along with any CSEC and CAPE results already completed. CAPE Unit 1 and Unit 2 exams with a minimum final grade of 2 can be considered for transfer credit.

NOTE: min.: minimum final grade

Application tips

› If you're from a high school outside of North America and not following the American, British A Levels, Caribbean, 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.

uwaterloo.ca/future/documents

Program/additional requirements

ARTS

Accounting and Financial Management

Global Business and Digital Arts

Honours Arts[†] (Waterloo, St. Jerome's)

Honours Arts and Business[†] (Waterloo, St. Jerome's)

Social Development Studies and Bachelor of Social Work Double Degree (Renison)

ENGINEERING

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

Architecture Qualified applicants will be invited to submit a portfolio.

Software Engineering AIF required. Experience developing well-structured, modular programs is required. Online video interview required. Individual selection may vary.

ENVIRONMENT

Climate and Environmental Change

Environment and Business

Environment, Resources and Sustainability; Geography and Environmental Management

Geography and Aviation Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.

Geospatial Data Science

Planning

Sustainability and Financial Management

HEALTH

Health Sciences

Kinesiology

Public Health

Recreation and Leisure Studies[†]

MATHEMATICS

Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) – Double Degrees AIF required. Individual selection may vary.

Computer Science AIF required. Individual selection may vary.

Computing and Financial Management AIF required. Individual selection may vary.

Mathematics,[†] Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management AIF required. Individual selection may vary.

Mathematics/Chartered Professional Accountancy AIF required. Individual selection may vary.

SCIENCE

Biomedical Sciences, Environmental Sciences, Honours Science, Life Sciences,[†] Physical Sciences,[†] Science and Business, Science and Financial Management

Science and Aviation Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Demonstration (ALPD) is also required.

Indian system	Caribbean system
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 2; one other Unit 2 course, min. 2.
Std XII English, min. 75%. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, min. 70%. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, min. 70%. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, min. 70%. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, Std XII Mathematics, Std XII Physics, Std XII Chemistry, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	English (CSEC required, CAPE recommended), min. 2; Unit 2 Pure Mathematics, min. 2; Chemistry (CSEC required, CAPE recommended), min. 2; Unit 2 Physics, min. 2; one other Unit 1 or Unit 2 academic course, min. 2. Mostly 1s recommended.
Std XII English, Std XII Mathematics or Std XII Applied Mathematics, and Std XII Physics, min. 70% in each; two other Std XII courses. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics and Unit 2 Physics, min. 2 in each; one other Unit 1 or Unit 2 academic course, min. 2. Mostly 2s or higher recommended.
Std XII English, Std XII Mathematics, Std XII Physics, Std XII Chemistry, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	English (CSEC required, CAPE recommended), min. 2; Unit 2 Pure Mathematics, min. 2; Chemistry (CSEC required, CAPE recommended), min. 2; Unit 2 Physics, min. 2; one other Unit 1 or Unit 2 academic course, min. 2. Mostly 1s recommended.
Std XII English and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each; Std XII Chemistry or Std XII Physics. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; Unit 2 Mathematics and either Unit 2 Chemistry or Unit 2 Physics, min. 2 in one and 3 in the other.
Std XII English, min. 70%. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, min. 70%. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English and either Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall mid-80s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; Unit 2 Mathematics and one other Unit 2 course, min. 2 in one and 3 in the other.
Std XII English and either Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall high 70s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; Unit 2 Mathematics and one other Unit 2 course, min. 2 in one and 3 in the other.
Std XII English, min. 75%. Overall low 80s Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; two Unit 2 courses, min. 2 in one and 3 in the other.
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 2; one other Unit 2 course, min. 2.
Std XII English, Std XII Mathematics or Std XII Applied Mathematics, Std XII Biology, and Std XII Chemistry, min. 70% in each. Overall 80% Std XII.	English and Mathematics at the CSEC, Unit 1, or Unit 2 level; Biology and Chemistry, one of which must be at the Unit 2 level; two Unit 2 courses. Min. 2 in all.
Std XII English and Std XII Mathematics, min. 70% in each; two of Std XII Chemistry, Std XII Physics, or Std XII Biology, min. 70%. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 2; two of Biology, Chemistry, or Physics (one must be at the Unit 2 level, min. 2).
Std XII English, min. 75%; Std XII Mathematics or Std XII Applied Mathematics, min. 70%. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 2; two of Biology, Chemistry, or Physics (one must be at the Unit 2 level, min. 2).
Std XII English, min. 70%. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 3; two Unit 2 courses, min. 2 in one and min. 3 in the other.
Std XII English; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 85% Std XII.	English at the CSEC, Unit 1, or Unit 2 level; Unit 2 Pure Mathematics, min. 2; one other Unit 2 academic course, min. 2.
Std XII English; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 85% Std XII.	English at the CSEC, Unit 1, or Unit 2 level; Unit 2 Pure Mathematics, min. 2; one other Unit 2 academic course, min. 2.
Std English, min. 75%; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 85% Std XII.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 2; one other Unit 2 academic course, min. 2.
Std XII English; Std XII Mathematics and one other Std XII academic course, min. 85% in each. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level; Unit 2 Pure Mathematics, min. 2; one other Unit 2 academic course, min. 2.
Std XII English; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 80% Std XII.	English at the CSEC, Unit 1, or Unit 2 level; Unit 2 Pure Mathematics, min. 2; one other Unit 2 academic course, min. 2.
Std XII English, min. 70% (80% for Science and Financial Management); Std XII Mathematics, min. 70% (80% for Science and Financial Management); two of Std XII Biology, Std XII Chemistry, or Std XII Physics; one other Std XII course. Overall 80% , including required courses.	English at the CSEC, Unit 1, or Unit 2 level, min. 2; Unit 2 Pure Mathematics, min. 3; two of Biology, Chemistry, Environmental Science, or Physics (one must be at the Unit 2 level, min. 2).

Apply to Waterloo

uwaterloo.ca/future/apply

Need help planning for your future at Waterloo? Follow the checklist at the back of the brochure. If you have questions, flip the checklist over for a list of contacts who can help you out!

How do I get started?

Your first stop is the Ontario Universities' Application Centre (OUAC) website: ouac.on.ca. If you're currently studying full-time at an Ontario high school, your school will automatically send us your grades. If you're studying any non-Ontario curriculum, please upload your transcripts to the Waterloo applicant portal and make arrangements to have your high school send us your official 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

Important fall 2027 application deadlines

FOR MOST PROGRAMS

Apply and pay your application fees to the OUAC by
February 1, 2027

Documents must reach the University of Waterloo by
February 15, 2027

FOR ENGINEERING PROGRAMS (EXCLUDING ARCHITECTURE)

Apply and pay your application fees to the OUAC by
January 15, 2027

Documents must reach the University of Waterloo by
February 1, 2027

English language test score requirements

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, you must meet or exceed the minimum scores required for one of the accepted tests.

Minimum scores required for direct entry*

Internet-based TOEFL	IELTS	PTE (academic)	Cambridge Assessment (C1 or C2)	Duolingo	English for Academic Success
Tests completed before January 21, 2026 require:					
90 overall					
25 in writing	6.5 overall		180 overall	120 overall	75% overall
25 in speaking	6.5 writing	63 overall	176 writing	125 literacy	in 400 levels
	6.5 speaking	65 writing	176 speaking	125 production	75% academic
Tests completed as of January 21, 2026 require:					
4.5 overall	6.0 reading	65 speaking	176 reading	All subscores required	75% oral
5 in writing	6.0 listening		176 listening		75% writing
5 in speaking					

*If you're academically admissible but don't quite meet the minimum required scores for the English language test you submit, you'll be automatically considered for our Bridge to Academic Success in English (BASE) program where applicable. Learn more about BASE eligibility: uwaterloo.ca/future/base-eligibility.

Q&A

What's an Admission Information Form (AIF)?

The AIF is a series of questions that explore your interests, experiences, and abilities. It lets our admissions committees learn more about you! An AIF is required for programs in the faculties of Math and Engineering, as well as the Geography and Aviation and Science and Aviation programs. We use this in addition to your grades to make admission and some scholarship decisions. Visit the website for tips and the questions you'll be asked.

uwaterloo.ca/future/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 Arts, Environment, Health, Mathematics, or Science, or the School of Architecture.*

*Results must be sent directly from the College Board or the IB0.

How do I receive assistance with the application process?

If you need help completing the application process, or you've had significant circumstances that affected your grades and you were not accommodated through your school or relevant services, you can request special consideration.

Note: Applying for special consideration does not guarantee admission.

uwaterloo.ca/future/consideration

Tuition and scholarships

Estimate your total first-year costs using our online cost calculator. Our website also offers detailed information on federal and provincial financial aid (such as OSAP), scholarships, and awards in specific faculties.

uwaterloo.ca/future/financing

Entrance scholarships and bursaries

You'll be automatically considered for most of our scholarships, including the Merit and President's scholarships, which range from \$1,000 to \$5,000.

Up to 2,500 additional entrance scholarships are available, ranging from \$500 to \$120,000, based on a variety of criteria; some require an application.

Bursaries for Ontario students are awarded based on financial need and range from \$1,000 to \$5,000.

International fee-paying students may also qualify for dedicated awards, including the \$10,000 International Student Entrance Scholarship for eligible first-year students in most programs.



Explore all scholarships

uwaterloo.ca/future/scholarships

Earn while you learn

Through a four-month co-op work term you can earn

**\$9,600–
\$23,400**

There are hundreds of part-time jobs on and off campus, and our work-study program allows you to earn up to

\$2,000
per school term

Tuition fees

For two academic terms
(Canadian dollars)

Program/faculty	Domestic Ontario	Domestic out-of-province	International (study permit)
Accounting and Financial Management*; Sustainability and Financial Management*	\$9,000	\$10,000	\$58,000
Architecture	\$14,000	\$15,000	\$75,000
Business Administration (Laurier) and Computer Science (Waterloo) Double Degree	\$17,000	\$20,000	\$75,000
Business Administration (Laurier) and Mathematics (Waterloo) Double Degree	\$15,000	\$15,000	\$64,000
Computer Science	\$16,000	\$18,000	\$73,000
Computing and Financial Management*	\$11,000	\$12,000	\$64,000
Global Business and Digital Arts	\$14,000	\$16,000	\$56,000
Mathematics; Mathematics/Business Administration; Mathematics/Chartered Professional Accountancy*	\$9,000	\$10,000	\$62,000
Mathematics/Financial Analysis and Risk Management	\$12,000	\$14,000	\$63,000
Science and Financial Management*	\$9,000	\$10,000	\$54,000
Faculty of Arts	\$9,000	\$10,000	\$58,000
Faculty of Engineering (including Software Engineering)	\$19,000	\$21,000	\$75,000
Faculty of Environment	\$9,000	\$10,000	\$51,000
Faculty of Health	\$9,000	\$10,000	\$54,000
Faculty of Science	\$9,000	\$10,000	\$54,000

Notes: Estimated amounts listed are based on 2026–2027 tuition rates and include incidental fees. These are rounded numbers. Students in a co-op program will pay a fee four to eight times throughout their degree. Learn more: uwaterloo.ca/future/co-op-fee. Tuition will be waived for validated Indigenous students who are members of the Mississaugas of the Credit First Nation or Six Nations of the Grand River. Learn more: uwaterloo.ca/future/tuition-waiver.

*Tuition is significantly higher in upper years.

Additional expenses

For two academic terms (Canadian dollars)

Residence From \$8,250 (traditional, double room) to \$10,980 (single room, suite style).

Meal plan From \$4,440 to \$9,200.

Personal expenses \$4,320 on average (\$540/month). Expenses may include phone, laundry, clothing, Internet, personal care, and entertainment.

Books and supplies Most programs estimate \$1,500 (\$8,100 for Architecture students – includes laptop, studio supplies, and field trips).

Your first-year expenses excluding tuition are estimated to be between \$18,510 and \$32,600.



Keep exploring

Come visit us

Experience life as a Warrior – join an event to explore our campus, programs, and community!

uwaterloo.ca/future/visit

Fall Open House: November 14, 2026

Spring Open House: April 3, 2027

Connect with current students

Curious about studying at Waterloo? Ask our student ambassadors about programs, classes, and life on campus.

uwaterloo.ca/future/ask

Check out the Missing Manual

Read our blog to get tips from current students on topics from choosing a program to applying to scholarships!

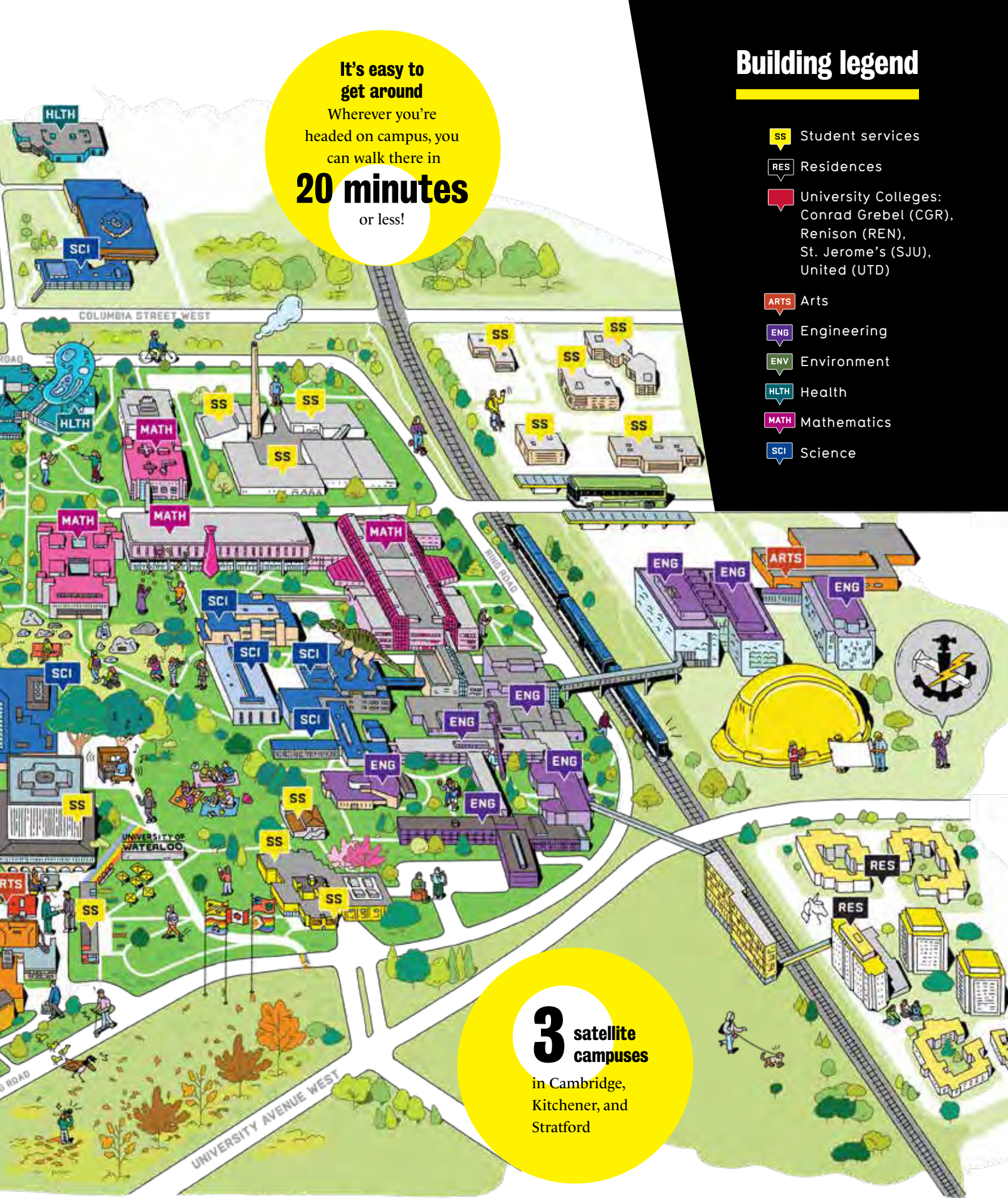
uwaterloo.ca/future/tips



Join our mailing list

Get reminders of important dates and deadlines, tips and advice, invites to events, and more. 

uwaterloo.ca/future/subscribe



It's easy to
get around
Wherever you're
headed on campus, you
can walk there in
20 minutes
or less!

Building legend

- SS** Student services
- RES** Residences
- University Colleges:**
Conrad Grebel (CGR),
Renison (REN),
St. Jerome's (SJU),
United (UTD)
- ARTS** Arts
- ENG** Engineering
- ENV** Environment
- HLTH** Health
- MATH** Mathematics
- SCI** Science

3 satellite
campuses
in Cambridge,
Kitchener, and
Stratford

All information is correct at time of printing. Please visit uwaterloo.ca/future for the latest information and updates.

Important contacts

General questions?

519-888-4567, ext. 43614

askus@uwaterloo.ca

Questions about applying?

519-888-4567, ext. 43106

myapplication@uwaterloo.ca

Program-related questions?

Faculty of Arts

arts@uwaterloo.ca

Faculty of Engineering

enginfo@uwaterloo.ca

Faculty of Environment

envinfo@uwaterloo.ca

Faculty of Health

health@uwaterloo.ca

Faculty of Mathematics

mathinfo@uwaterloo.ca

Faculty of Science

science@uwaterloo.ca

School of Accounting and Finance

saf@uwaterloo.ca

Questions about University Colleges?

Conrad Grebel

grebel@uwaterloo.ca

Renison

renison@uwaterloo.ca

St. Jerome's

sjuoutreach@uwaterloo.ca

United

unitedcollege@uwaterloo.ca

Other Waterloo contacts

Application checklist

Your guide to full-time undergraduate studies at Waterloo.

uwaterloo.ca/future/apply

1. Choose your program

See page 15 for a list of our programs and where to learn more about each one. Review admission requirements on pages 42-53. Explore even more online.

uwaterloo.ca/future/programs

2. Apply online

Apply to Waterloo and our University Colleges (Renison and St. Jerome's University) through the Ontario Universities' Application Centre.

ouac.on.ca

3. Log in to your Waterloo applicant portal

Once you've applied, 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. Complete the items in your checklist

Your next steps and required documents will be listed in your applicant portal. The first item to complete is the Declaration of Academic Experience, which will update your checklist to show which documents (if any) you'll need to provide for your application. These could include official transcripts, proof of English language proficiency, or other supplementary application documents like an Admission Information Form. [W](#)

uwaterloo.ca/future/documents

YOU+WATERLOO

Our greatest impact happens together



Waterloo is committed to acting on the climate emergency

and is working toward carbon neutrality and zero waste in our own practices. The paper this publication is printed on contains post-consumer fibre and is Forest Stewardship Council® (FSC®) certified.

*Illustrations by Kathleen Fu (BAS '17, MArch '20),
graduate of the University of Waterloo School of Architecture.*

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An accessible version of this brochure is available at

uwaterloo.ca/future/request

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uwaterloo.ca/future

