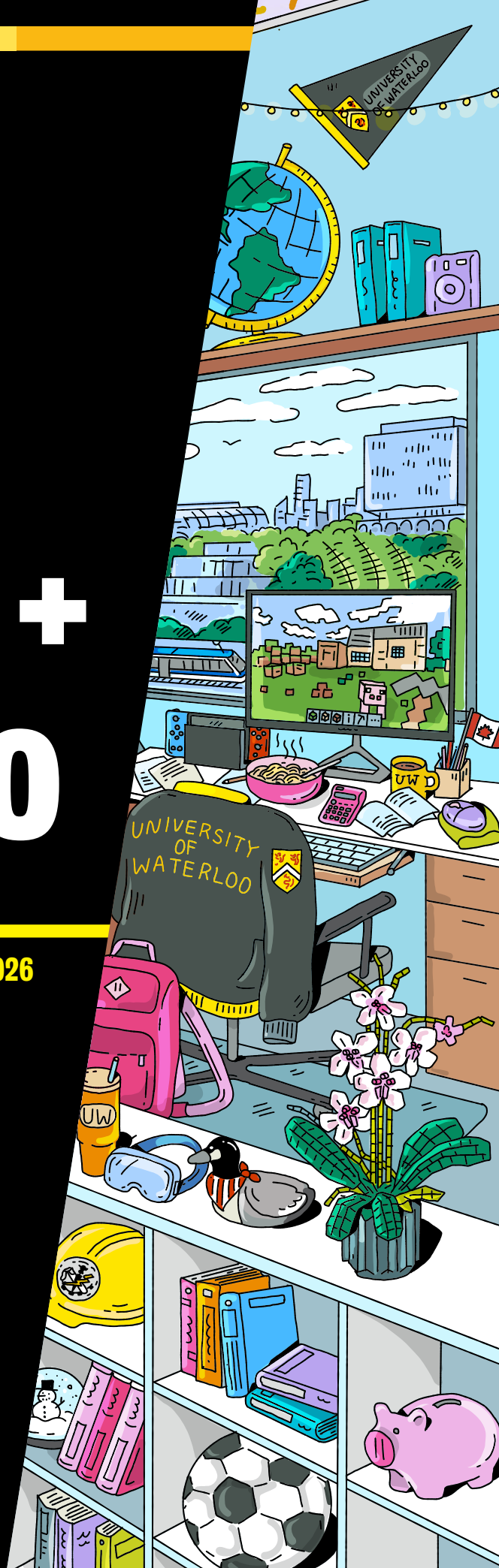
You + Waterloo

International admissions 2026

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.


UNIVERSITY OF WATERLOO
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UNIVERSITY OF WATERLOO
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UW

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 longstanding industry partnerships, focus on real-world solutions, and relentless spirit of entrepreneurship, there's a reason we're one of Canada's top universities.

uwaterloo.ca/future/rankings

1

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 17 years**.

**Times Higher Education World Reputation Rankings 2025*
***Research Infosource 2024*

2

Home to the world's leading co-op program

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 $38,000 and $137,000 (CAD)* over the course of your degree.

**All dollar amounts listed throughout this brochure 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 the number one university in Canada for founders and entrepreneurs, with 478 companies launched and $20 billion USD raised in capital over the last decade*. At Waterloo, learning and innovation go hand in hand.

**PitchBook 2024*

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: about 70 per cent of Waterloo's international students become Permanent Residents in Canada after they graduate – double the national average!

**Ontario University Graduate Survey of 2021 graduates*

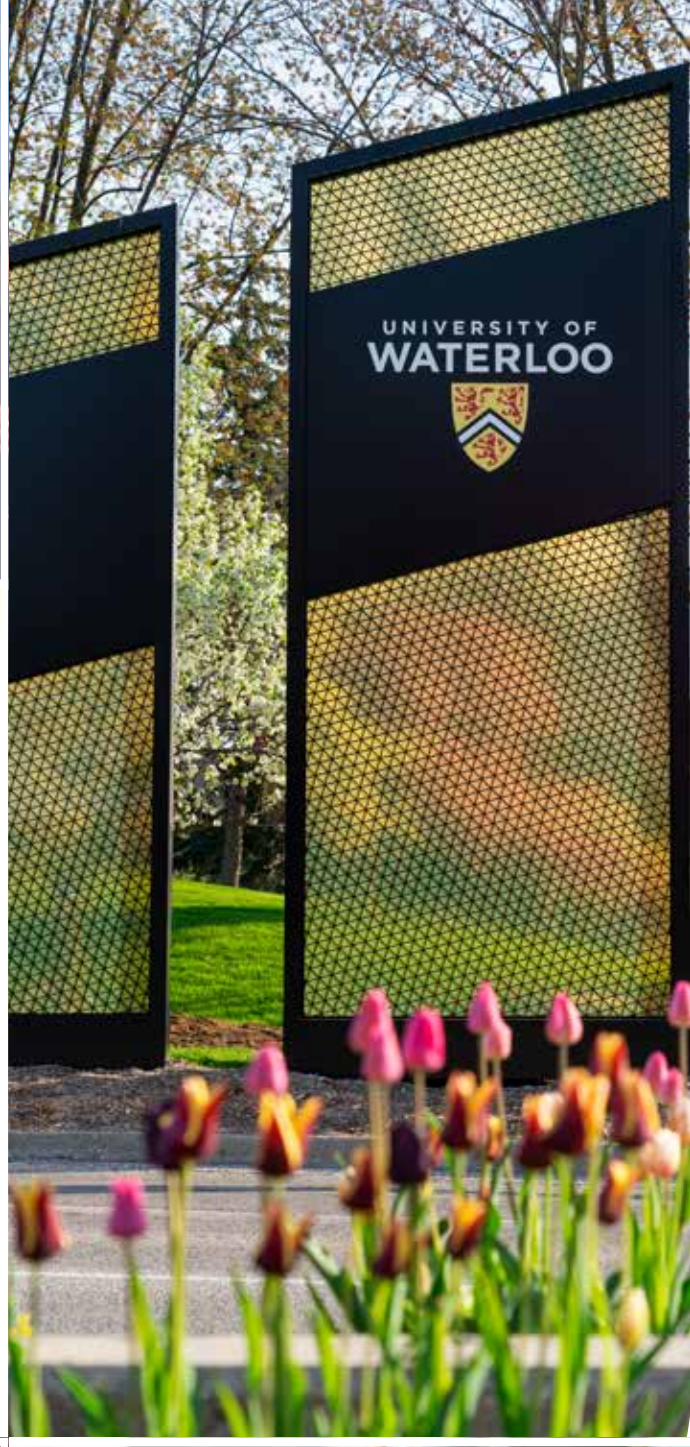
5

One of the safest cities to live in, in one of the world's safest countries*

Home to one of Canada's youngest populations, the city of Waterloo is a great place to be a student. With over 673,000 people living in the region, there are tons of festivals, events, and exciting local experiences you can't have anywhere else.

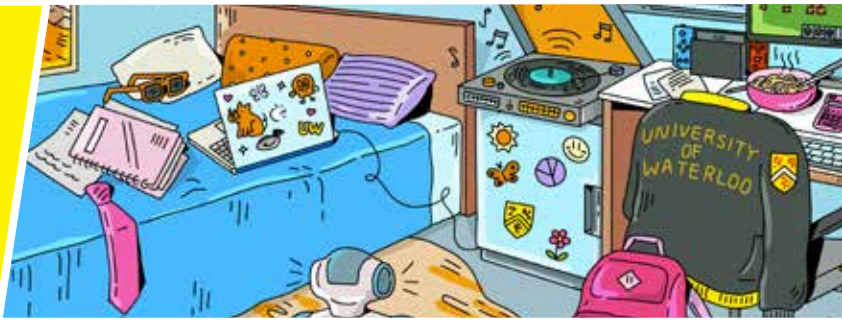
**6th safest country in the world (U.S. News 2024), 10th safest city in Canada (Rentola 2023)*

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

World's leading co-op program

uwaterloo.ca/future/co-op

"Co-op is a great opportunity to explore your interests and understand where you fit before you graduate and enter the workforce."

Jarett (he/him)
Biomedical Engineering student
2024 Co-op Student of the Year, Engineering

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. Your dedicated co-op advisor is there 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
- Earn between $9,600-$22,800 per work term
- 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**	Study
5	Fall	Study	Study	**Work**
	Winter	Study	Study	Study

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

26,000+

Waterloo students are enrolled in co-op

This is more than twice as many co-op students as the next two largest Canadian co-op programs combined

$137K

potential total co-op earnings over the course of your degree

8,000+

employers in more than 70 countries

97%

co-op employment rate (fall 2024)

#1 school for entrepreneurs

Join 1,000+ ventures 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.

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 Indigenous creators through the FlintHub Indigenous 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.

#1 **in Canada for producing venture-backed entrepreneurs** *(PitchBook 2024)*

Aileen Agada (she/her) (BASc '21, MBET '24), 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. W

Creator-owned

intellectual property policy means your great ideas belong to you

uwaterloo.ca/future/creator

A guaranteed place for you

uwaterloo.ca/future/residence

Living in residence puts you in the middle of the action. You'll be close to your classes, places to eat, gyms, on-campus activities and resources, and more.

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

Live and learn with like-minded peers

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

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.

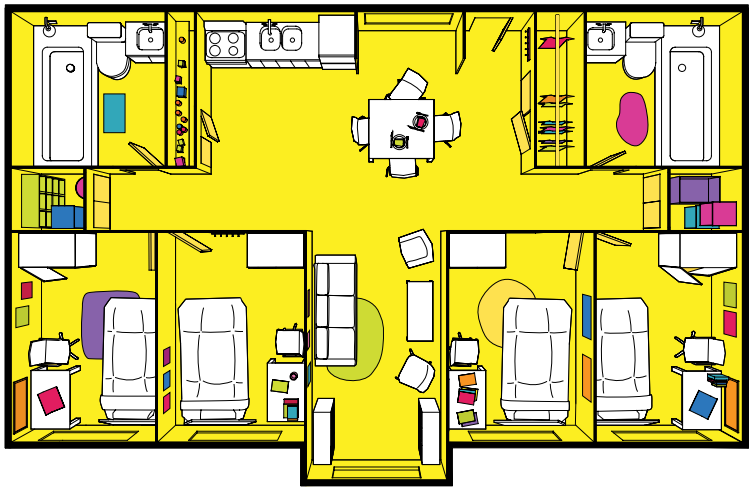
Looking for a smaller community?

Choose a smaller, close-knit community and live in one of our University Colleges – Conrad Grebel, Renison, St. Jerome's, or United – right on campus. W

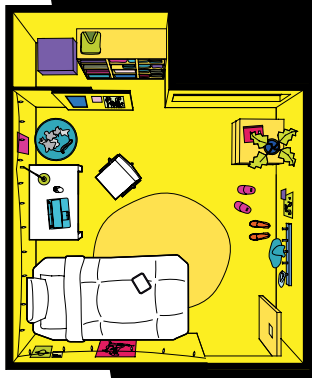
Rank your preference for traditional or suite-style residences depending on your budget and personality.

Sample room floor plans*

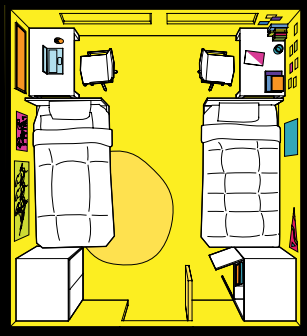
SUITE-STYLE ROOMS



SINGLE ROOM



DOUBLE ROOM



*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.

Support at every step

At Waterloo, we're committed to your success. From day one, we'll help you feel supported and at home in Canada. 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 at every step.

uwaterloo.ca/future/international-support

Find comfort in community

Ease your transition to Waterloo with the support of the International Peer Community, build new friendships, and learn about Canadian culture through activities on and off campus.

Access health and dental care

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

Are your English language scores low?

If you meet our academic requirements but your English language scores are lower than required, you'll be automatically considered for our Bridge to Academic Success in English (BASE) pathway program. You'll take intensive language courses while earning credit toward your Waterloo degree and gain the necessary skills to succeed at Waterloo and beyond.

uwaterloo.ca/future/base

120+

Campus Wellness staff members to support you

6

Regulated Canadian Immigration Consultants to offer advice on immigration documents

15%

of undergraduate students are international visa students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RING ROAD
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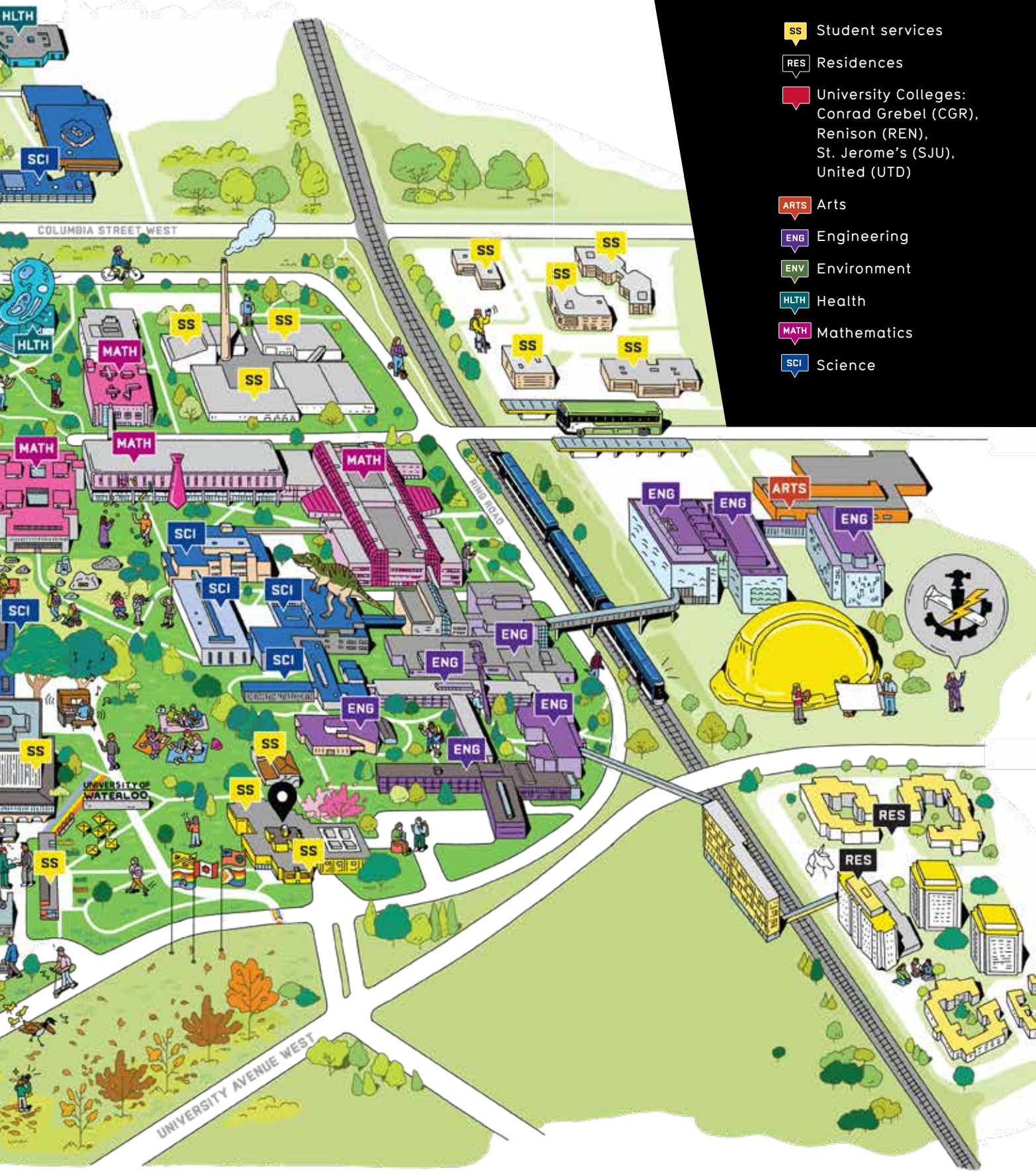
3 satellite campuses
in Cambridge, Kitchener, and Stratford

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



What is a faculty?

A faculty is a group of departments and professional schools that offer programs (also called majors) relating to the theme of that faculty.

Your academic advisor, labs, facilities, student societies, and most of your professors and courses will be in your faculty. However, many programs allow you to take courses in other faculties, too!

Learn more about what each of Waterloo's faculties has to offer.

uwaterloo.ca/future/your-faculty

Faculty of Arts

Explore where curiosity, creativity, and critical thinking thrive. Discover diverse disciplines and a community that challenges you to dive deeper.

Faculty of Engineering

Push boundaries, ignite innovation, and transform ideas into reality. Experience a dynamic, hands-on education that extends beyond the classroom and shapes the future.

Faculty of Environment

Deepen your understanding of the drivers and impacts of global change while gaining hands-on skills to help you shape the future of our communities, businesses, and biomes.

Faculty of Health

Make a difference that improves lives. Join this tight-knit community dedicated to preventing disease, healing injuries, and optimizing people's quality of life.

Faculty of Mathematics

Develop your formula for success. In the Faculty of Mathematics, you'll study and work with people who are just as passionate about math and computer science as you are!

Faculty of Science

Go beyond your own limits – participate in ground-breaking research, engage with award-winning professors, and dive into hands-on learning opportunities.

Program details

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

uwaterloo.ca/future/programs

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

uwaterloo.ca/future/customize

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 job possibilities

FACULTY OF ARTS / PAGES 17-18
- Accounting and Financial Management
- Anthropology
- Classical Studies
- Communication Studies
- Computing and Financial Management
- Economics
- English
- Fine Arts
- French
- Gender and Social Justice
- Global Business and Digital Arts
- History
- Honours Arts
- Honours Arts and Business
- Legal Studies
- Liberal Studies
- Medieval Studies
- Music
- Peace and Conflict Studies
- Philosophy
- Political Science
- Psychology
- Religion, Culture, and Spirituality
- Science and Financial Management
- Sexualities, Relationships, and Families
- Social Development Studies
- Social Work
- Sociology
- Sustainability and Financial Management
- Theatre and Performance

FACULTY OF ENGINEERING / PAGES 18-20
- 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 20-21
- Climate and Environmental Change
- Environment and Business
- Environment, Resources and Sustainability
- Geography and Aviation
- Geography and Environmental Management
- Geomatics
- Planning
- Sustainability and Financial Management

FACULTY OF HEALTH / PAGE 21
- Health Sciences
- Kinesiology
- Public Health
- Recreation and Leisure Studies
- Recreation, Leadership, and Health
- Sport and Recreation Management
- Therapeutic Recreation

FACULTY OF MATHEMATICS / PAGES 22-23
- Actuarial Science
- Applied Mathematics
- Applied Mathematics with Scientific Computing and Scientific Machine Learning
- Biostatistics
- Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
- Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
- Combinatorics and Optimization
- Computational Mathematics
- Computer Science
- Computing and Financial Management
- Data Science
- Information Technology Management
- Mathematical Economics
- Mathematical Finance
- Mathematical Optimization
- Mathematical Physics
- Mathematical Studies
- Mathematics
- Mathematics/Business Administration
- Mathematics/Chartered Professional Accountancy
- Mathematics/Financial Analysis and Risk Management
- Mathematics/Teaching
- Pure Mathematics
- Software Engineering
- Statistics

FACULTY OF SCIENCE / PAGES 24-25
- Biochemistry
- Biological and Medical Physics
- Biology
- Biomedical Sciences
- Chemistry
- Earth Sciences
- Environmental Sciences
- Honours Science
- Life Sciences
- Materials and Nanosciences
- Mathematical Physics
- Medical Sciences (Waterloo) and Doctor of Medicine (St. George's)
- Medicinal Chemistry
- Optometry
- Pharmacy
- Physical Sciences
- Physics
- Physics and Astronomy
- Psychology
- Science and Aviation
- Science and Business
- Science and Financial Management

WAYS TO STUDY BUSINESS
- 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

Faculty of Arts

ACCOUNTING AND FINANCIAL MANAGEMENT / FACULTY OF ARTS AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Accounting and Financial Management) Co-op only

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

▲ Professional Accountant; Entrepreneurial Mindset; Enterprise Performance and Risk; Financial Markets; Business Analytics

■ Accountant, auditor, investment banker

★ Staff accountant, intermediate tax accountant, funding analyst

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

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 as Culture

■ Archeologist, curator of natural property, heritage planner

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

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; The Ancient Near East and Egypt; Astrology and Magic

■ Teacher, reference librarian, technical writer

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

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

COMPUTING AND FINANCIAL MANAGEMENT
See the Faculty of Mathematics section (page 22) for details.

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

Economics is more than data and money. You'll explore the dynamics of everyday life 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; Public Policy

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

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

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; Technical Writing

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

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

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

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

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

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

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

GENDER AND SOCIAL JUSTICE / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

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

GLOBAL BUSINESS AND DIGITAL ARTS / FACULTY OF ARTS (E, Bachelor of Global Business and Digital Arts) Co-op only

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 a 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

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

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

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

Combine the employable skills of business studies with one of 28 Arts majors to launch the career of a lifetime. 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

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

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.

● Criminal Profiling; Organized Crime; Legal Writing

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

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

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

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

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; Performance

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

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

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; Conflict Resolution; Fair Trade

▲ Restorative Justice

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

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

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.

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

■ Lawyer, public policy analyst, ethicist, corporate archivist

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

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

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

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

SCIENCE AND FINANCIAL MANAGEMENT
See the Faculty of Science section (page 25) for details.

✻ SEXUALITIES, RELATIONSHIPS, AND FAMILIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

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

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

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

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.

● Social Work with Families; Disability and Society; Decolonization and Social Action

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

■ Child protection worker, teacher, social policy developer, counsellor

SOCIAL WORK / RENISON UNIVERSITY COLLEGE (E, Bachelor of Social Work) Regular only

Balancing compassion with in-class learning and an in-field practicum, you'll gain life-changing skills. Note: you must already have a BA or equivalent. For prerequisite courses, enrol in Social Development Studies first.

● Interviewing and Assessment; Mental Health Landscapes, Concepts, and Practice Approaches

■ Mental health advocate, child welfare worker, policy developer

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

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

✻ SUSTAINABILITY AND FINANCIAL MANAGEMENT
See the Faculty of Environment section (page 21) for details.

THEATRE AND PERFORMANCE / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available

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; Collaborative Creation

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

Faculty of Engineering

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

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

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, project co-ordinator, 3D architectural artist

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

Create tomorrow's life-saving and life-enhancing innovations. In this interdisciplinary program, you'll study 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; Medical Artificial Intelligence; Medical Devices; Neural Engineering; Sports Engineering

■ Clinical app developer, imaging technology researcher, medical device designer

★ Molecular biology and drug delivery co-op, soft robotics researcher and developer, research student – cancer imaging

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

Discover how to transform raw materials while putting your creativity and problem solving to the test. You'll learn to design, implement, and supervise the processes that transform fuel into energy, waste into resources, and raw materials into useful products in almost any industry: bio-technology, pollution control, green fuels, power storage, health care, food production, and more.

● Chemical Reaction Engineering; Food Process Engineering; Air Pollution Control

▲ Energy and Environmental Systems and Processes; Materials and Manufacturing Processes; Chemical Process Modelling, Optimization and Control

■ Pharmaceutical product developer, semiconductor process engineer, process improvement specialist

★ Research lab assistant, cosmetic process engineering assistant, nuclear product management assistant

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

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

● Structure and Properties of Materials; Engineering and Sustainable Development; Civil 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 / FACULTY OF ENGINEERING
(E, Bachelor of Applied Science) Co-op only

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

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

● Semiconductor Physics and Devices; Power Systems and Smart Grids; Electromagnetic Fields and Waves

▲ Communications and Signal Processing; Quantum Engineering

■ Autonomous vehicle developer, renewable energy project manager, sensor design engineer

★ Electrical assembler, firmware engineering assistant, electrical and power designer

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

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; Water Resources; Pollution and Restoration; Modelling and Data Analytics; Sustainable Cities

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

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

Engineer business decisions in the age of big data and 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; Databases and Software Design; Operations Planning and Inventory Control

■ Business analyst, product manager, consultant, software developer, data scientist

★ Operations analyst, software engineering assistant, technical product manager

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

Put your career in gear. This program gives you a broad foundation in all aspects of mechanical design – and lots of opportunities to get your hands dirty in our well-equipped labs. You'll study 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 / FACULTY OF ENGINEERING
(E, Bachelor of Applied Science) Co-op only

Build the next generation of "smart" machines, emergency response drones, and driverless cars. You'll combine mechanical, electrical, computer, and software engineering to develop robots, intelligent vehicles, and more. With co-op and labs starting in first year, you'll gain lots of experience creating sophisticated electro-mechanical devices.

● Sensors and Instrumentation; Microprocessors and Digital Logic; 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 / FACULTY OF ENGINEERING
(E, Bachelor of Applied Science) Co-op only

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 / FACULTY OF ENGINEERING AND FACULTY OF MATHEMATICS (E, Bachelor of Software Engineering) Co-op only

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

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

■ Systems software developer, cybersecurity engineer, technical project lead

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

✻ **SYSTEMS DESIGN ENGINEERING / FACULTY OF ENGINEERING** (E, Bachelor of Applied Science) Co-op only

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.

● Design, Systems, and Society; Engineering Prototyping; Human Factors in Design; Systems Models

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

■ Complex systems analyst, physical and digital device designer, data scientist, socio-environmental simulation modeller

★ Automated test developer, process engineer, enterprise digital engineering assistant

Faculty of Environment

✻ **CLIMATE AND ENVIRONMENTAL CHANGE / FACULTY OF ENVIRONMENT** (E, Bachelor of Science) Co-op available

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. Then, 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.

● Physical Climatology; Earth's Future Climates; Ice Sheets and Glaciers

▲ Aviation; Economy and Society; Geomatics

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

★ Projects assistant, ecologist, climate change policy analyst

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

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

You want to protect the living world. Now lead the way. 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 making positive change. Customize this program to focus on what matters to you: food security, biodiversity conservation, water management, climate adaptation, and more.

● Communities and Sustainability; Environmental 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 / FACULTY OF ENVIRONMENT** (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.

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

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

GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available

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 geomatics, 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 Indonesia.

● Environment and Development in a Global Perspective; Low Carbon Transition; Environmental Hydrology of Terrestrial Ecosystems; Human Dimensions of Natural Hazards; Sustainable Tourism

▲ Aviation; Climate Change and Environment; Earth Systems Science; Economy and Society; Geomatics

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

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

GEOMATICS / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available

Detail-oriented and love working with tech? Geomatics needs you. With environmental crises on the rise, geomatics experts combine computer science, math, satellite imagery, and GIScience to create solutions. Hands-on experience with cutting-edge software and hardware gives you the tools to gather and analyze real-world data right from week one.

● Earth from Space Using Remote Sensing; Geodesy and Surveying; Civic Technology and Digital Infrastructures

▲ Aviation; Climate Change and Environment; Earth Systems Science; Economy and Society

■ Spatial data analyst, GIS technician, remote sensing specialist

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

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

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; Urban Design; Social Planning and Community Development

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

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

SUSTAINABILITY AND FINANCIAL MANAGEMENT / FACULTY OF ENVIRONMENT AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Sustainability and Financial Management) Co-op only

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

▲ Corporate Sustainability; Government Policy and Financial Markets; Indigenous Entrepreneurship

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

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

Faculty of Health

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

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

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

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 / FACULTY OF HEALTH
(E, Bachelor of Arts)

Did you know 95 per cent of people engage in leisure or sport activities daily? Recreation gives us a chance to have fun, stay active, and socialize – and is essential for our health! 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; Sport and Recreation Management; or Therapeutic Recreation.

RECREATION, LEADERSHIP, AND HEALTH / FACULTY OF HEALTH
(M, Bachelor of Arts) Co-op available

Every time someone visits a music festival, meets friends at the neighbourhood recreation 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 / FACULTY OF HEALTH
(M, Bachelor of Arts) Co-op available

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 though 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 Business; 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 / FACULTY OF HEALTH
(M, Bachelor of Arts) Co-op available

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

Faculty of Mathematics

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

Harness the power of mathematics, probability, and statistics to understand market trends, risks, rates, and returns for pension funds, schools, and insurance agencies. Accredited by the Canadian Institute of Actuaries, this top-ranked program streamlines entry into the high-paying field.

● Corporate Finance; Applied Linear Models; Investment Science

▲ Finance; Predictive Analytics

■ Actuarial analyst, e-trading developer, financial analyst

★ Operational risk management analyst, actuarial associate, finance and accounting analyst

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

Apply mathematical concepts and tools to solve real-world problems in this hands-on program. By expanding your knowledge of calculus and differential equations, you'll develop math and computational skills to work in many industries on everything from ocean wave behaviour to the structure of space-time.

● Computational Methods for Differential Equations; Introduction to Mathematical Biology; Calculus of Variations

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

■ Researcher, software developer, data scientist

★ Research assistant, data analyst, scientific programmer

APPLIED MATHEMATICS WITH SCIENTIFIC COMPUTING AND SCIENTIFIC MACHINE LEARNING / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

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; Data-Driven Mathematical Models; Scientific Machine Learning

■ AI research scientist, LLM data scientist, AI engineer

★ Scientific programmer, web full-stack developer, assistant survey methodologist

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

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

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

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; Computer Organization and Design

■ Business analyst, software engineer, application developer

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

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

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

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

Master two of math's most powerful techniques. Combinatorics focuses on finite structures, while optimization explores ways to increase operational efficiency. You'll learn to apply these ideas to modern problems through courses in cryptography, graph theory, and linear programming.

● Coding Theory; Algorithm Design and Analysis; Applied Cryptography

■ Developer, operations research analyst, cryptographer

★ Web interface developer, cryptographic security analyst, information systems specialist

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

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

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

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

● Designing Functional Programs; Data Structures and Data Management; The Social Implications of Computing

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

■ Software developer, web developer, business and risk modelling analyst

★ DevOps engineer, game programmer, full-stack developer

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

Set yourself apart in the fintech market. You'll learn to solve complex problems in the growing, trillion-dollar financial technology industry 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; Equity Investments

■ Software developer, quantitative analyst, investment banking analyst

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

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

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

● Computer Organization and Design; Data Visualization; Data Structures and Data Management

■ Data scientist, statistician, business analyst

★ Web interface developer, cryptographic security analyst, information systems specialist

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

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

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

Study equations that include dollar signs and join other elite math students in one of the world's most advanced 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 / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Find solutions to resource scarcity issues, from streamlining sports team schedules to making factories more efficient. You'll study mathematical modelling in 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 / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available

Master advanced math to decode everything from the cosmos to quantum computing. You'll study high-level math and physics in one of Canada's most innovative departments of physics. Then choose a career from a wide range of industries, or advance to graduate studies.

● Waves, Electricity and Magnetism; Introduction to Theoretical Mechanics; Quantum Theory

■ Operations specialist, information technology architect, software modeller

★ Defence scientist, design engineer, physics technician

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

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

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

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 / FACULTY OF MATHEMATICS AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Mathematics) Co-op only

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

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

MATHEMATICS/TEACHING / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op only

Inspire the next generation of math lovers. Combine your math, statistics, and computer science courses with eight months of classroom experience – more than any other Bachelor of Education preparatory program in Canada – before you apply to teachers' college.

● Introduction to Mathematics Education; Educational Psychology; Mathematical Discovery and Invention

■ Teacher, online learning consultant, instructional media developer

★ Math tutor, mathematics teaching co-op, senior mathematics teaching co-op

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

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

SOFTWARE ENGINEERING
See the Faculty of Engineering section (page 20) for details.

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

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.

● Probability Models for Business and Accounting; Sampling and Experimental Design; Applied Linear Models

■ Biostatistician, business intelligence specialist, software quality analyst

★ Data analyst, data science co-op, senior data scientist

Faculty of Science

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

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

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

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

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

Study life: it's in your DNA. With more than 80 courses available – including labs and fieldwork – this program gives you lots of opportunity to explore the functions of living organisms, where they come from, and how they evolve. You can also choose our Bioinformatics Option, combining biological analysis with computer science.

● Fundamentals of Microbiology; Principles of Human Physiology; Diversity of Life

■ Biologist, veterinarian, environmental consultant, physician, pharmacist, optometrist

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

BIOMEDICAL SCIENCES / FACULTY OF SCIENCE (M, 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; Introductory Developmental Biology and Embryology; Principles of Molecular Biology

■ Dentist, optometrist, pharmacist, physician, veterinarian

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

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

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

● Physical Hydrogeology; Petrography; Mineralogy

▲ Geology; Geophysics; Hydrogeology

■ Hydrogeologist, geologist, geophysicist

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

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

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 / FACULTY OF 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

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

Live for science? Your degree starts here. If you want to major (M) in Biochemistry, Biology, Biomedical Sciences, or Psychology, apply to Life Sciences, your gateway to specialized courses. You'll do lab work right from first year – and then graduate with a Bachelor of Science in your selected major. Study everything from microorganisms to medicine and bioinformatics.

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

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

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; Quantum Physics; Classical Mechanics and Special Relativity

■ Theoretical physicist, data scientist, quantitative analyst

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

MEDICAL SCIENCES (WATERLOO) AND DOCTOR OF MEDICINE (ST. GEORGE'S) / FACULTY OF SCIENCE (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. Program subject to formal approval. Visit uwaterloo.ca/future/sgu for more details.

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

■ Physician, general practitioner, surgeon

MEDICINAL CHEMISTRY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op only

Explore the exciting science of drug discovery. You'll take courses in computer-aided drug design and gain valuable work experience in places like pharmaceutical companies and hospitals. By graduation, you'll understand how to design, synthesize, and evaluate potential medications – ready to create the life-saving treatments of tomorrow.

● Chemical Kinetics 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

OPTOMETRY / 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 / SCHOOL OF PHARMACY (E, Doctor of Pharmacy) Co-op only

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; Pharmaceutics

■ 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

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

What's the formula for an exciting future in science? Explore the universe and earn a highly prized degree at Waterloo. Apply to Physical Sciences to major (M) in Biological and Medical Physics, Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medicinal Chemistry, Physics, or Physics and Astronomy. You'll graduate with a Bachelor of Science in your selected major.

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

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

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

● Introduction to the Universe; 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

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

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

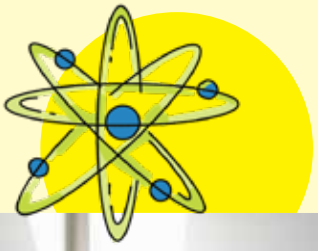
★ Health promotion assistant, health coach, research analyst

SCIENCE AND AVIATION / FACULTY OF SCIENCE (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; Physical Climatology; Human Factors in Aviation

■ Pilot, flight training instructor, aerial surveyor



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

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.

● Business Law; Entrepreneurship and the Creative Workplace; General Chemistry

▲ Biochemistry; Biology; Biotechnology

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

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

SCIENCE AND FINANCIAL MANAGEMENT / FACULTY OF SCIENCE AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Science) Co-op only

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 science and business.

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

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

■ Accountant, financial manager, portfolio manager

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

Admission requirements

Ontario and International Baccalaureate systems

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 16-25. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

View admission requirements
for other systems of study

uwaterloo.ca/future/requirements

Ontario Secondary School System

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.

International Baccalaureate (IB) system

Six total IB courses; at least three must be HL. Total scores exclude Diploma Points. Subjects required for admission to specific programs should be HL whenever possible. Where there are more than three prerequisite subjects, SL courses will be accepted. For programs listing HL or SL English A, HL English B with min. 5 will be acceptable. For programs listing HL or SL Mathematics: Analysis and Approaches, HL Applications and Interpretations will not be accepted unless stated otherwise. SL Applications and Interpretations will not be accepted for any program.

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

Program (apply to)/system of study/additional requirements
ARTS — **Accounting and Financial Management** Co-op only.
ARTS — **Global Business and Digital Arts** Co-op only.
ARTS — **Honours Arts**† (Waterloo, St. Jerome's) Regular and co-op.
ARTS — **Honours Arts and Business**† (Waterloo, St. Jerome's) Regular and co-op.
CFM — **Computing and Financial Management** Co-op only. AIF required.
ENGINEERING — **Architecture** Co-op only. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.
ENGINEERING — **Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design** Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.
SOFTWARE ENG — **Software Engineering** Co-op only. AIF required. Experience developing well-structured, modular programs is required. Online video interview required. Individual selection may vary.
ENVIRONMENT — **Climate and Environmental Change** Regular and co-op.
ENVIRONMENT — **Environment and Business** Co-op only.
ENVIRONMENT — **Environment, Resources and Sustainability; Geography and Environmental Management** Regular and co-op.
ENVIRONMENT — **Geography and Aviation** Regular only. AIF required. 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.
ENVIRONMENT — **Geomatics** Regular and co-op.
ENVIRONMENT — **Planning** Co-op only.
HEALTH — **Health Sciences** Regular and co-op.
HEALTH — **Kinesiology** Regular and co-op.
HEALTH — **Public Health** Regular and co-op.
HEALTH — **Recreation and Leisure Studies**† Regular and co-op.
MATHEMATICS — **Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) — Double Degrees** Co-op only. AIF required. Individual selection may vary.
MATHEMATICS — **Computer Science**† Regular and co-op. AIF required. Individual selection may vary.
MATHEMATICS — **Mathematics**†**, Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required. Individual selection may vary.
MATHEMATICS — **Mathematics/Chartered Professional Accountancy** Co-op only. AIF required. Individual selection may vary.
SCIENCE — **Science and Financial Management** Co-op only. **Environmental Sciences, Life Sciences**†**, Physical Sciences**†**, Science and Business** Regular and co-op. **Honours Science** Regular only.
SCIENCE — **Science and Aviation** Regular only. AIF required. 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.
SFM — **Sustainability and Financial Management** Co-op only.

Ontario Secondary School system	International Baccalaureate system
Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%). Average mid-80s.	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.
Any Grade 12 U English (min. 75%). Average low 80s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 70%). Average low 80s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 70%). Average low 80s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 75%); Advanced Functions; Calculus and Vectors; one other Grade 12 U course. Average low to mid-90s.	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A, min. 4, or HL English B, min. 5. Total 32.
English (ENG4U – min. 75%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Physics (min. 70%). Average mid-80s.	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; HL or SL English A, min. 4. Total 32.
Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); English (ENG4U – min. 70%); Physics (min. 70%). Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology, average mid- to high 80s. Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design, average high 80s to low 90s.	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry and English A, min. 4 in each; one other HL or SL course, min. 4. Total 32. 6s and 7s recommended.
Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); English (ENG4U – min. 70%); Physics (min. 70%). Average low to mid-90s.	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry and English A, min. 4 in each; one other HL or SL course, min. 4. Total 32. 6s and 7s recommended.
English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%); Chemistry or Physics. Average high 70s.	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; one of HL or SL Chemistry or Physics. Total 27.
Any Grade 12 U English (min. 70%). Average high 70s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 70%). Average high 70s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%). Average mid-80s.	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; strongly recommended: one SL course in Physical or Environmental Science. Total 27.
Any Grade 12 U English (min. 70%); any Grade 12 U Mathematics (min. 70%). Average high 70s.	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4. Total 27.
Any Grade 12 U English (min. 75%). Average low 80s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 70%); Biology (min. 70%); Chemistry (min. 70%); any Grade 12 U Mathematics (min. 70%). Average mid-80s (regular), high 80s (co-op).	Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; HL or SL Chemistry, and HL or SL Biology, min. 4 in each; HL or SL English A, min. 4, or HL English B, min. 5. Total 28.
Any Grade 12 U English (min. 70%); any two of the following: Biology (min. 70%), Chemistry (min. 70%), or Physics (min. 70%); one of the following: Advanced Functions (min. 70%) or Calculus and Vectors (min. 70%). Average low 80s (regular), mid-80s (co-op).	Mathematics: HL or SL Analysis and Approaches, or HL Applications and Interpretations, min. 4; two of HL or SL Biology, Physics, or Chemistry, min. 4; HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Any Grade 12 U English (min. 75%); any Grade 12 U Mathematics (min. 70%). Average low 80s (regular), mid-80s (co-op).	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4. Total 27.
Any Grade 12 U English (min. 70%). Average low 80s.	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Business Administration (Laurier) and Computer Science (Waterloo) Double Degree average low to mid-90s. Business Administration (Laurier) and Mathematics (Waterloo) Double Degree average mid- to high 80s.	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.
Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average low to mid-90s.	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.
Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average mid-80s.	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 30.
Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average mid-80s.	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 30.
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. Average low 80s. Science and Financial Management average low to mid-80s. Science and Aviation average mid-80s.	HL or SL Mathematics: Analysis and Approaches, min. 4; HL or SL English A, min. 4, or HL English B, min. 5; two of Biology, Chemistry, or Physics. Total 27.
Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%). Average mid-80s.	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.

Admission requirements

American and British systems

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 16–25. 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 (apply to)/system of study/additional requirements
ARTS — **Accounting and Financial Management** Co-op only.
ARTS — **Global Business and Digital Arts** Co-op only.
ARTS — **Honours Arts**† (Waterloo, St. Jerome's) Regular and co-op.
ARTS — **Honours Arts and Business**† (Waterloo, St. Jerome's) Regular and co-op.
CFM — **Computing and Financial Management** Co-op only. AIF required.
ENGINEERING — **Architecture** Co-op only. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.
ENGINEERING — **Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design** Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.
SOFTWARE ENG — **Software Engineering** Co-op only. AIF required. Experience developing well-structured, modular programs is required. Online video interview required. Individual selection may vary.
ENVIRONMENT — **Climate and Environmental Change** Regular and co-op.
ENVIRONMENT — **Environment and Business** Co-op only.
ENVIRONMENT — **Environment, Resources and Sustainability; Geography and Environmental Management** Regular and co-op.
ENVIRONMENT — **Geography and Aviation** Regular only. AIF required. 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.
ENVIRONMENT — **Geomatics** Regular and co-op.
ENVIRONMENT — **Planning** Co-op only.
HEALTH — **Health Sciences** Regular and co-op.
HEALTH — **Kinesiology** Regular and co-op.
HEALTH — **Public Health** Regular and co-op.
HEALTH — **Recreation and Leisure Studies**† Regular and co-op.
MATHEMATICS — **Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) — Double Degrees** Co-op only. AIF required. Individual selection may vary.
MATHEMATICS — **Computer Science**† Regular and co-op. AIF required. Individual selection may vary.
MATHEMATICS — **Mathematics**†**, Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required. Individual selection may vary.
MATHEMATICS — **Mathematics/Chartered Professional Accountancy** Co-op only. AIF required. Individual selection may vary.
SCIENCE — **Science and Financial Management** Co-op only. **Environmental Sciences, Life Sciences**†**, Physical Sciences**†**, Science and Business** Regular and co-op. **Honours Science** Regular only.
SCIENCE — **Science and Aviation** Regular only. AIF required. 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.
SFM — **Sustainability and Financial Management** Co-op only.

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

Admission requirements

Indian and Chinese systems

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 16–25. 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.

Chinese system

Chinese High School Diploma. Completion of a minimum of five Senior 3 academic courses. Final official documents verified by China Credentials Verification (CSSD) are required from all Chinese National Curriculum students. For more information, refer to the program admission requirements on our website.

NOTE: min. = minimum final grade, **overall =** minimum overall final average.

Application tips

› If you're from a high school outside of North America and not following the American, British A Levels, Chinese, Indian, or International Baccalaureate system of study, you should attach course descriptions for senior-level mathematics along with your transcripts.

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

uwaterloo.ca/future/documents

	Program (apply to)/system of study/additional requirements
ARTS	**Accounting and Financial Management** Co-op only.
	Global Business and Digital Arts Co-op only.
	Honours Arts† (Waterloo, St. Jerome's) Regular and co-op.
	Honours Arts and Business† (Waterloo, St. Jerome's) Regular and co-op.
CFM	**Computing and Financial Management** Co-op only. AIF required.
ENGINEERING	**Architecture** Co-op only. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.
	Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.
SOFT-WARE ENG	**Software Engineering** Co-op only. AIF required. Experience developing well-structured, modular programs is required. Online video interview required. Individual selection may vary.
ENVIRONMENT	**Climate and Environmental Change** Regular and co-op.
	Environment and Business Co-op only.
	Environment, Resources and Sustainability; Geography and Environmental Management Regular and co-op.
	Geography and Aviation Regular only. AIF required. 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.
	Geomatics Regular and co-op.
	Planning Co-op only.
HEALTH	**Health Sciences** Regular and co-op.
	Kinesiology Regular and co-op.
	Public Health Regular and co-op.
	Recreation and Leisure Studies† Regular and co-op.
MATHEMATICS	**Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) — Double Degrees** Co-op only. AIF required.
	Computer Science† Regular and co-op. AIF required.
	Mathematics†**, Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required.
	Mathematics/Chartered Professional Accountancy Co-op only. AIF required.
SCIENCE	**Science and Financial Management** Co-op only. **Environmental Sciences, Life Sciences**†**, Physical Sciences**†**, Science and Business** Regular and co-op. **Honours Science** Regular only.
	Science and Aviation Regular only. AIF required. 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.
SFM	**Sustainability and Financial Management** Co-op only.

Indian system	Chinese system
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 80% in each. Overall 88% in Senior 3.
Std XII English, min. 75%. Overall 80% Std XII.	Senior 3 English, min. 80%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std English, min. 75%; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English, min. 80%. Overall 90% in Senior 3.
Std XII Mathematics and Std XII Physics, min. 70%; Std XII English, min. 75%; two other Std XII courses. Overall 80% Std XII.	Senior 3 Mathematics, min. 76%; Senior 3 Physics, min. 76%; Senior 3 English, min. 80%. Overall 88% in Senior 3.
Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min. 75% in each; one other Senior 3 academic course, min. 75%. Overall 88% in the five required courses.
Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min. 75% in each; one other Senior 3 academic course, min. 75%. Overall 88% in the five required courses.
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.	Senior 3 English and Senior 3 Mathematics, min. 75%; Senior 3 Chemistry or Senior 3 Physics. Overall low 80s in Senior 3.
Std XII English, min. 70%. Overall high 70s Std XII.	Senior 3 English, min. 75%. Overall low 80s in Senior 3.
Std XII English, min. 70%. Overall high 70s Std XII.	Senior 3 English, min. 75%. Overall low 80s in Senior 3.
Std XII English and either Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each; strongly recommended: Std XII Physical or Environmental Science. Overall mid-80s Std XII.	Senior 3 English and Senior 3 Mathematics, min. 75% in each; strongly recommended: Senior 3 course in Physical or Environmental Science. Overall high 80s in Senior 3.
Std XII English and either Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall high 70s Std XII.	Senior 3 English and Senior 3 Mathematics, min. 75% in each. Overall low 80s in Senior 3.
Std XII English, min. 75%. Overall low 80s Std XII.	Senior 3 English, min. 80%. Overall mid-80s in Senior 3.
Std XII English, Std XII Biology, Std XII Chemistry, and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall 80% Std XII.	Senior 3 Chemistry, Senior 3 Biology, Senior 3 Mathematics, and Senior 3 English, min. 75% in each. Overall 88% in Senior 3.
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.	Senior 3 Mathematics and Senior 3 English, min. 75% in each; two of Chemistry, Physics, or Biology at the Senior 3 level, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 75%; Std XII Mathematics or Std XII Applied Mathematics, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 80%; Senior 3 Mathematics, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 90% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 90% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 85% in each; Std XII English. Overall 80% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 88% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 80% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 88% in Senior 3.
Std XII Mathematics, min. 70% (80% for Science and Financial Management); Std XII English, 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.	Senior 3 Mathematics, min. 75% (80% for Science and Financial Management); Senior 3 English, min. 75% (80% for Science and Financial Management) or Senior 3 Physics; one other Senior 3 academic course. Overall 85% in Senior 3, including required courses. 88% for Science and Aviation.
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 80% in each. Overall 88% in Senior 3.

Tuition and expenses

uwaterloo.ca/future/financing

Tuition fees

For two academic terms (Canadian dollars)

Program/faculty	International tuition (study permit)
Accounting and Financial Management*; Sustainability and Financial Management*; Faculty of Arts	$58,000
Architecture; Business Administration (Laurier) and Computer Science (Waterloo) Double Degree	$74,000
Faculty of Health; Faculty of Science; Science and Financial Management*	$53,000
Business Administration (Laurier) and Mathematics (Waterloo) Double Degree; Computing and Financial Management*; Mathematics/Financial Analysis and Risk Management	$63,000
Computer Science	$73,000
Faculty of Engineering; Software Engineering	$74,000
Faculty of Environment	$51,000
Global Business and Digital Arts	$56,000
Mathematics; Mathematics/Business Administration; Mathematics/Chartered Professional Accountancy*	$61,000

Notes: Estimated amounts listed are based on 2025-26 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**. In recognition of the Jay Treaty, Native American students from the continental U.S. are eligible for Ontario domestic tuition instead of international tuition. Learn more: **uwaterloo.ca/future/tuition-waiver**.

*Tuition is significantly higher in upper years.

Additional expenses

For two academic terms (Canadian dollars)

Residence

From $7,570 (traditional, double room) to $10,080 (single room, suite style).

Meal plan

From $3,000 to $8,990.

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 $16,390 and $31,490.

Cost calculator

Estimate your total first-year costs

uwaterloo.ca/future/estimate

Scholarships

uwaterloo.ca/future/scholarships

There are more than 170 entrance awards international students may be eligible for, ranging from

$1,000–$40,000

You'll be automatically considered for most of our scholarships, including our Merit and President's scholarships which range from

$1,000–$5,000

Plus a variety of awards are available beyond first year.

uwaterloo.ca/future/upper-year-awards

TIP: Some scholarships require an application. Be sure to mark your calendar and apply by the deadline!

Explore all scholarships

uwaterloo.ca/future/international-scholarships

Earn while you learn

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

$9,600–$22,800

You may choose to work part time on your study visa.* There are hundreds of part-time jobs on and off campus, and our international work-study program allows you to earn up to

$2,000

per school term

Notes: Our provincial minimum wage is $16.60 per hour. *Exceptions apply. Visa details are available at **www.canada.ca**. Co-op students must have a work permit.

Apply to Waterloo

uwaterloo.ca/future/apply

Need help planning for your future at Waterloo? Follow the checklist at the back of this brochure and complete each step by the deadline. If you have questions, flip the checklist over for a list of important contacts.

How do I get started?

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

uwaterloo.ca/future/documents

Important fall 2026 application deadlines

Applications open on the OUAC
Late September 2025

FOR MOST PROGRAMS

Apply and pay your application fees to the OUAC by
January 30, 2026

Documents must reach the University of Waterloo by
February 13, 2026

FOR ENGINEERING PROGRAMS (EXCLUDING ARCHITECTURE)

Apply and pay your application fees to the OUAC by
January 15, 2026

Documents must reach the University of Waterloo by
January 30, 2026

What about English language test scores?

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
90 overall, 25 writing, 25 speaking	6.5 overall, 6.5 writing, 6.5 speaking, 6.0 reading, 6.0 listening	63 overall, 65 writing, 65 speaking	180 overall, 176 writing, 176 speaking, 176 reading, 176 listening	120 overall, 125 literacy, 125 production	75% overall in 400 levels, 75% academic, 75% oral, 75% writing

*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**.

If you completed a Duolingo test before July 1, 2024, please visit our website for more information: **uwaterloo.ca/future/elr.

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 program and Science and Aviation program. 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 IBO.

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

Keep exploring

Don't miss a thing

Join our mailing list

Get reminders of important dates and deadlines, tips and advice from current students, invites to events, and more!

uwaterloo.ca/future/subscribe

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YouTube @ExperienceWaterloo

What awaits you beyond the classroom

Discover all the exciting things to do on campus and in the city of Waterloo.

uwaterloo.ca/future/student-life

Tips from current Waterloo Warriors

Ask a Warrior

Connect with current students and ask them questions about the programs you're interested in, student life, and more.

uwaterloo.ca/future/ask

The Missing Manual student blog

Read tips and advice from current students and staff about applying to Waterloo, finding scholarships, preparing for university, and more.

uwaterloo.ca/future/missing-manual

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

international.recruitment@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

Read through the program descriptions on pages 16-25 and review the admission requirements on pages 26-31. Explore even more online.

uwaterloo.ca/future/programs

2. Apply online

Apply to Waterloo or St. Jerome's University College 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. Send us your documents

In addition to your official transcripts, we may require other documentation (e.g., proof of English language proficiency).

uwaterloo.ca/future/documents

5. Complete your Admission Information Form

Some programs may also require an interview, portfolio, or other supplementary items. Check the admission charts (pages 26-31) for details.

uwaterloo.ca/future/aif

6. Join our mailing list

Get tips and advice from current Waterloo students.

uwaterloo.ca/future/subscribe

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.

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.

An accessible version of this brochure is available at

uwaterloo.ca/future/request

University of Waterloo
200 University Ave. W., Waterloo, ON, Canada N2L 3G1

uwaterloo.ca/future

STUDY ONTARIO CANADA
Welcome to the World's Favourite Classroom

EduCanada
A world of possibilities
Un monde de possibilités

DESIGN CREATIVE STUDIO, UNIVERSITY OF WATERLOO **EDITORIAL** MARKETING & UNDERGRADUATE RECRUITMENT, UNIVERSITY OF WATERLOO PLEASE KEEP, SHARE OR RECYCLE FP3449