Life at an intersection.

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

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

Where will you go from here?
Discover limitless potential.

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

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

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

uwaterloo.ca/future/rankings
ATIVE for 28 consecutive years (Maclean’s University Ranking)

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

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

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

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

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

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

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

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

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

Campus Wellness staff to support you

120 #2 in Canada for graduate employability (QS Graduate Employability Rankings, 2020)

32 varsity sports teams to cheer on

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

211 student clubs

93.6% student retention rate (Waterloo Performance Indicators)

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

**STARTUP PARADISE**

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

**A LITTLE BIT OF EVERYTHING**

Attend any of the region’s 1,200+ festivals and events or enjoy the ever-growing restaurant and food truck scene. Nature lovers can explore nearby trails and conservation areas where you can camp, hike, fish, or even try river tubing! For a sneak peek of Waterloo life, check out #KWAwesome.

**GETTING AROUND**

Like a triple-layer cake, the region of Waterloo is made up of three cities, each with its own flavour and attractions. Use your student card to ride Grand River Transit and enjoy easy access to all the region has to offer, including downtown Kitchener’s tech hub, Cambridge’s riverside architecture, or uptown Waterloo’s distinct trend-setting scene. Beyond transit, there are lots of ways to get around – bike-share, car-share, shuttle services, etc. If it’s got wheels, we’ve got it.
Uptown Waterloo, home to dozens of restaurants, shops, cafés, music venues, clubs, and more, is a 20-minute walk (or a quick bus ride!) from campus.

617,870 people call the Region of Waterloo home

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

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

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

UNLIMITED CHOICES

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

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

#BEYONDIDEAS
#SOMANYOPTIONS
#RESUMEBUILDING

Kylie Honours Arts and Business, Co-op Faculty of Arts

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

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

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

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

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

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

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

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

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

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

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

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

Fall term: September to December
Winter term: January to April
Spring term: May to August
Write your own ticket.

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

**Rupi Kaur (BA ’15)**
Honours Arts and Business
New York Times best-selling author and illustrator

**Diana Chiu (BSc ’05, MBET ’06)**
Science and Business
Senior manager, business development
DuckDuckGo

**Jonathan Laurencic (BA ’10)**
Recreation and Business
Co-founder and director of operations
Elora Brewing Company

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

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

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

uwaterloo.ca/future/success
WHERE ARE THEY NOW?

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

#UWFUTURESHAPERS

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

**EDUCATION**
- Teacher recruitment manager, Teach For Canada
- Math teacher, Columbia International College

17% of our employed co-op grads find jobs related to the skills they gained at Waterloo within six months of graduation

**FINANCE AND INSURANCE**
- Treasury and balance sheet analyst, TD Bank Group
- User experience specialist, Manulife Financial

**GOVERNMENT AND PUBLIC ADMINISTRATION**
- Program advisor; Ontario Ministry of Environment, Conservation and Parks
- Forensic search technologist, Royal Canadian Mounted Police

**TECHNOLOGY**
- Technology solutions professional, Microsoft Canada Inc.
- Global supply manager, Apple Inc.

20% of our employed co-op grads find jobs related to the skills they gained at Waterloo within six months of graduation

**PROFESSIONAL SERVICES**
- Senior consultant, Deloitte Consulting
- Planner, Groundswell Urban Planners Inc.

**COMMUNICATIONS AND NEW MEDIA**
- Data scientist, Facebook
- Software engineer, Twitter

**RETAIL AND MANUFACTURING**
- Process engineer, Toyota Motor Manufacturing Canada Inc.
- Financial analyst, The Beer Store

**HEALTH CARE AND SOCIAL SERVICES**
- Child protection worker, Children’s Aid Society
- Resident physician MD, University of Toronto

**UTILITIES AND TRANSPORTATION**
- Geotechnical design, Shell Canada Ltd.
- Transit planner, City of Burlington

**HOSPITALITY AND RECREATION**
- Program co-ordinator, Baseball Alberta
- Stage manager, Stratford Festival

13% of our employed co-op grads find jobs related to the skills they gained at Waterloo within six months of graduation

10% of our employed co-op grads find jobs related to the skills they gained at Waterloo within six months of graduation
RESIDENCE LIFE

100% residence guarantee for all new students

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**WATERLOO INDIGENOUS STUDENT CENTRE**
This centre celebrates the values and rights of Indigenous Peoples and cultures. It facilitates the sharing of Indigenous knowledge with relevant information and support.

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

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

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

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

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

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

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

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

*provided by Waterloo Undergraduate Student Association (WUSA)

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

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

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120 Campus Wellness staff to support you
STUDENT LIFE

We know how to have fun.

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

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

CLUBS AND SOCIETIES
There’s no excuse for boredom on campus. We have more than 200 clubs, societies, and associations for you to explore, like Believe 4 Kids, Because I Am A Girl, Best Buddies, Biomedical Science Student Association, Black Association for Student Expression, Breakers dance group, Breaking Barriers: Cross-Cultural Mental Health, and Buddha’s Light Community – and those are just the B’s. If you don’t see one that fits your exact interest, start your own club! There’s always room to expand the roster.

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

40 on-campus eateries to grab lunch with a friend

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

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

uwaterloo.ca/future/life
ATHLETICS AND RECREATION

We take wellness seriously.

A healthy mind and a healthy body go hand in hand. That’s why Warrior Recreation wants to help you stay active as part of a healthy lifestyle. Take advantage of one of Canada’s most diverse campus recreation programs, with over 250 fitness programs to choose from.

WARRIOR RECREATION

Taking time to exercise won’t just help your physical well-being, it can also help your mental health and academic performance – so get moving! Waterloo is home to one of the largest recreation programs in the country – so there are always tons of ways to get involved. Join one of the intramural leagues kicking off in September, check out the 25+ sports clubs, or register for our Shoe Tag program to access weekly fitness and wellness classes.

VARSITY ATHLETICS

Whether you want to make the cut or cheer from the stands, you’ll be happy to know we’re home to 32 competitive varsity programs. In our 60-year history, our Warriors have brought home 101 provincial championships and eight national titles, giving us even more reasons to take pride in our black and gold. Get in on the excitement and watch our teams in action; Waterloo students get free admission to all regular-season home games!

If you’re interested in joining one of our varsity programs or have questions for one of the coaches, visit our recruitment website to start the conversation: gowarriorsgo.ca/recruitment.

Meet our school mascot, King Warrior. He makes appearances at special events and games. Make sure you get a selfie!

uwaterloo.ca/future/sports
ATHLETICS FACILITIES
Stay active in our gyms, pool, ice rink, squash courts, studios, high performance zone, playing fields, Warrior Field stadium, and new 65,000-square-foot Field House. You'll be among the first to enjoy the SLC-PAC expansion, which features a two-storey climbing wall, more lounge and studio space, and a fitness centre triple the size of the previous one.

32 varsity teams

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

FREE entry to Waterloo Warriors home games with your Waterloo ID
More than business.

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

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

HOME OF VELOCITY
Canada’s most productive startup incubator

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

*Student-reported earnings ranging from Ontario minimum wage to 95th percentile. May vary by jurisdiction.
Some students value sleep and studying above all. Varun thrives on chaos. An accounting and finance major, he found the right balance, even playing for the Varsity Baseball team. “School is about more than studying. It’s balancing your physical and mental well-being, building friendships, and pushing yourself.”

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

#BEYONDIDEAS
#GOLDENTICKET
#EATSLEEPPLAYBALLREPEAT

ENTREPRENEURIAL CULTURE

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

BUSINESS PROGRAMS

› Accounting and Financial Management
› Biotechnology/Chartered Professional Accountancy
› Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
› Business Administration (Laurier) and Mathematics (Waterloo) Double Degree
› Computing and Financial Management
› Environment and Business
› Global Business and Digital Arts
› Honours Arts and Business
› Information Technology Management
› Management Engineering
› Mathematical Finance
› Mathematics/Business Administration
› Mathematics/Chartered Professional Accountancy
› Mathematics/Financial Analysis and Risk Management
› Recreation and Sport Business
› Science and Business
For Esther, heading to work has taught her about mental health. Through her co-op experiences, she’s found her passion and seen the role therapeutic recreation can play in a person’s life.

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

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

**ENTRY PROGRAMS AND MAJORS**

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

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

You can focus your studies through specializations starting in second year.

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54% of Health Studies and Kinesiology graduates go on to professional or graduate school.

95% of AHS grads are employed or pursuing further education within a year of graduating.

TOP 5 in Canada for Hospitality and Leisure Management (QS World Rankings, 2020)
Faculty of Arts

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

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

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

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

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

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

In Honours Arts and Honours Arts and Business, you spend 40% of your time studying a chosen major.

90 partner universities offer international study exchanges to Arts students.

800+ courses in 59 different subjects.

35% of honours students add a second major and/or a minor to their degree to broaden their studies.
Worldly Warrior

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

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

#BeyondIdeas #RaiseYourVoice #BeTheChange

uwaterloo.ca/future/arts
TOGETHER WE MAKE A DIFFERENCE

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

#BEYONDIDEAS
#WOMENENGINEERS
#TEAMWORK

SHAPE SOCIETY

Faculty of Engineering

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

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

› Architecture*  
› Architectural Engineering  
› Biomedical Engineering  
› Chemical Engineering  
› Civil Engineering  
› Computer Engineering  
› Electrical Engineering  
› Environmental Engineering  

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

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

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

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

$8,400–$19,200+**

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

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

uwaterloo.ca/future/engineering
NURTURE YOUR NATURE

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

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

#BEYONDIDEAS
#PEDALPOWER
#NOPLANETB
RAISE THE BAR

Faculty of Environment

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

ENTRY PROGRAMS

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

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

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

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

LARGEST Faculty of Environment in Canada
OPEN INFINITE DOORS

Faculty of Mathematics

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

ENTRY PROGRAMS AND MAJORS

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

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

TOP 50

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

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

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

$8,400–$21,000+

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

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

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

#BEYONDIDEAS  #CREATIVEGENIUS  #PINKTIE
GET A STRONG REACTION

Faculty of Science

In our most research-centric faculty, use your curiosity, ingenuity, and passion for knowledge to discover everything from atoms and cells to the vast expanses of space. Learn to think critically, experiment confidently, and engage intelligently through hands-on labs, projects, and co-op terms. Participate in groundbreaking research or test your ideas in our Science Innovation Hub. Whichever path you choose to explore, your science degree will give you the foundation you need to succeed.
When Carson chose his major in Earth Sciences, he imagined spending time in the field, studying rocks, and bonding with nature. So, when he landed a summer job in Nunavut charting rocks and living in a tent, he knew he’d made the right choice.

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

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

› Biotechnology/Chartered Professional Accountancy
› Environmental Science
› Honours Science
› Life Sciences*
  ▪ Biochemistry
  ▪ Biology
  ▪ Biomedical Sciences
  ▪ Psychology
› Physical Sciences*
  ▪ Chemistry
  ▪ Earth Sciences
  ▪ Life Physics
  ▪ Materials and Nanosciences
  ▪ Mathematical Physics
  ▪ Medicinal Chemistry
  ▪ Physics
  ▪ Physics and Astronomy
› Science and Aviation
› Science and Business
*Select your major when you apply.

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

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

The finer points.

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

uwaterloo.ca/future/programs

A / PAGE 33
› Accounting and Financial Management
› Actuarial Science
› Anthropology
› Applied Mathematics
› Architectural Engineering
› Architecture

B / PAGE 33
› Biochemistry
› Biology
› Biomedical Engineering
› Biomedical Sciences
› Biostatistics
› Biotechnology/Chartered Professional Accountancy
› Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
› Business Administration (Laurier) and Mathematics (Waterloo) Double Degree

C / PAGE 33-34
› Chemical Engineering
› Chemistry
› Civil Engineering
› Classical Studies
› Combinatorics and Optimization
› Communication Studies
› Computational Mathematics
› Computer Engineering
› Computer Science
› Computing and Financial Management

D / PAGE 34
› Data Science

E / PAGES 34-35
› Earth Sciences
› Economics
› Electrical Engineering
› English
› Environment and Business
› Environment, Resources and Sustainability
› Environmental Engineering
› Environmental Science

F / PAGE 35
› Fine Arts
› French

G / PAGE 35
› Gender and Social Justice
› Geography and Aviation
› Geography and Environmental Management
› Geological Engineering
› Geomatics
› German
› Global Business and Digital Arts

H / PAGE 35-36
› Health Studies
› History
› Honours Arts
› Honours Arts and Business
› Honours Science

I / PAGE 36
› Information Technology Management
› International Development

K / PAGE 36
› Kinesiology
› Knowledge Integration

L / PAGE 36
› Legal Studies
› Liberal Studies
› Life Physics
› Life Sciences

M / PAGES 36-37
› Management Engineering
› Materials and Nanosciences
› Mathematical Economics
› Mathematical Finance
› Mathematical Optimization
› Mathematical Physics (BMath)
› Mathematical Physics (BSc)
› Mathematical Studies
› Mathematics
› Mathematics/Business Administration
› Mathematics/Chartered Professional Accountancy
› Mathematics/Financial Analysis and Risk Management
› Mathematics/Teaching
› Mechanical Engineering
› Mechatronics Engineering
› Medicinal Chemistry
› Medieval Studies
› Music

N / PAGE 37
› Nanotechnology Engineering

O / PAGE 38
› Optometry

P / PAGE 38
› Peace and Conflict Studies
› Pharmacy
› Philosophy
› Physical Sciences
› Physics
› Physics and Astronomy
› Planning
› Political Science
› Psychology (BA)
› Psychology (BSc)
› Public Health
› Pure Mathematics

Q / PAGE 38-39
› Recreation and Leisure Studies
› Recreation and Sport Business
› Religious Studies

S / PAGE 39
› Science and Aviation
› Science and Business
› Sexuality, Marriage, and Family Studies
› Social Development Studies
› Social Work
› Sociology
› Software Engineering
› Spanish
› Statistics
› Systems Design Engineering

T / PAGE 39
› Theatre and Performance
› Therapeutic Recreation
› Tourism Development

LEGEND
○ Only offered at the University of Waterloo
○ Available online
E = Entry-level program: apply directly through Ontario Universities’ Application Centre (OUAC)
M = Major: subject of major interest, apply through an entry-level program
 Sample courses
 Specializations
 Career possibilities
ACCOUNTING AND FINANCIAL MANAGEMENT / FACULTY OF ARTS AND SCHOOL OF ACCOUNTING AND FINANCE (E, Bachelor of Accounting and Financial Management) Co-op only
Acquire the expertise to analyze financial information and take a leadership role in any business. Study accounting, finance, and business and how they interrelate. Extend your learning through co-op work terms and extracurricular opportunities while working toward a Chartered Professional Accountant (CPA) and/or Chartered Financial Analyst (CFA) designation. Questions? Email afm@uwaterloo.ca.
- Accountant, auditor, investment banker

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

ANTHROPOLOGY / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
From Neanderthals to Gen Z, discover what it means to be human. Explore the evolution and early societies, or tackle contemporary issues such as violence and media. Whether you’re examining fossils and bones in the lab or conducting fieldwork in the Mediterranean, the Arctic, or Africa, you’ll learn more about how the human race has evolved over time.
- Biological Anthropology, Skeletal Biology and Forensics, Archaeological Field School
- Archaeologist, curator of natural property, heritage planner

APPLIED MATHEMATICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
- Apply your knowledge of mathematical concepts and computational tools to complex issues in areas such as communications engineering or climate change.
- Computational Methods for Differential Equations, Introduction to Mathematical Biology, Approximation of Functions
- Biology, Economics, Engineering, Physics, Scientific Computation
- Researcher, software developer, analyst

ARCHITECTURAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
- Build better buildings (and a bright career in the process). In Waterloo’s newest engineering program, you’ll cover the science of good building design, including mechanics, building systems, structural analysis, and structural design – and round it out with courses in aesthetics, culture, and other design elements at our world-class School of Architecture.
- Structural Design Studio, History of the Built Environment, Architectural Graphics Studio, Electrical Circuits and Instrumentation
- Building Structures, Building Systems
- Building design consultant, project manager, designer, construction consultant

ARCHITECTURE / SCHOOL OF ARCHITECTURE (E, Bachelor of Architectural Studies) Co-op only
- Create the blueprints for a great career in one of North America’s top schools of architecture. From day one, you’ll have your own dedicated studio space to develop your ideas as you explore the relationship between architecture, the environment, and society. In fourth year, study at our studio in Rome. Questions? Email architecture@uwaterloo.ca.
- Architect, project manager, designer, sustainable development and heritage professional

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

BIOLGY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available
- Study life: it’s in your DNA. With more than 80 programs in Biology, you’ll study engineering principles in biology, mechanics, physics, systems analysis, and design. With plenty of hands-on experience in biological and medical systems, you’ll graduate ready to develop new technology for health care or athletics.
- Introduction to Biomedical Design, Engineering Biology, Anatomical Systems Modeling
- Biomedical Engineer, Biomedical Engineer, Engineer, Biomedical Engineer

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

BIOMEDICAL SCIENCES / FACULTY OF SCIENCE (M, Bachelor of Science) Regular system of study 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 in North America. Plus, it gives you room to add a minor or pursue a variety of personal interests to round out your degree.
- Human Anatomy, Introductory Developmental Biology and Embryology, Principles of Molecular Biology
- Dentist, optometrist, pharmacist, physician

BIOSTATISTICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
- Fight illness with a healthy dose of data. You’ll focus on clinical, public, and population health statistics. You’ll also take specialized upper-year courses, graduating with the strong data-based decision-making skills you need to be part of an effective health-care research team.
- Introduction to Medical Statistics, Management Information Systems, Statistical Methods for Life History Analysis
- Medical researcher, data analyst, biostatistician

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

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

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

CHEMICAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
- Discover how to transform raw materials while putting your creativity and problem solving to the test. You’ll learn to design, implement, and supervise the processes that transform fuel into energy, waste into resources, and raw materials into useful products in almost any industry: biotechnology, pollution control, green fuels, power storage, and more.
- Materials Science and Engineering, Bioprocess Engineering, Process Analysis and Design
- Design and creation of pharmaceuticals, manufacturing of microelectronics, process engineering of petrochemicals
CHEMISTRY / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available
Fire up the Bunsen burners in one of Canada’s top chemistry programs. You’ll learn from leading experts in the industry, work with advanced chemical instrumentation in our labs, and participate in cutting-edge research. This program is accredited by the Canadian Society for Chemistry and the Chemical Institute of Canada.
- Multi-Component Analysis, Structure and Bonding, Quantum Mechanics
- Computational Chemistry, Bio-based Chemistry (Bio-based Chemistry is available only in the regular stream of study)
- Analytical chemist, chemistry patents agent, forensic scientist

CIVIL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Make the world your sandbox in Canada’s largest civil engineering program. Learn to design, construct, and manage the infrastructure we all depend on: bridges, highways, dams, pollution-control facilities, and more.
- Structure and Properties of Materials, Engineering and Sustainable Development, Civil Engineering Systems and Project Management
- Transportation, Structures, Water Resources
- Design and construction of roadways, buildings, urban transportation, and water systems

CLASSICAL STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Delve into the roots of Western civilization. Gain a deep understanding of history, culture, literature, religion, art, philosophy, and society in ancient Greece and Rome – cultures that continue to shape our thinking and our society today. Take advantage of study-abroad opportunities in the Mediterranean. Language courses are optional. Choose Classics or Classical Studies as your major (Classics includes learning Greek and Latin).
- Greek Art and Architecture, Astrology and Magic, Roman History
- Teacher, reference librarian, technical writer

COMBINATORICS AND OPTIMIZATION / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Master two of math’s most powerful techniques. Combinatorics focuses on finite structures, while optimization explores ways to make an operation more efficient. Through courses in cryptography, graph theory, and linear programming, you’ll learn how to apply these ideas to problems in areas ranging from security to scheduling to risk analysis.
- Introduction to Combinatorics, Introduction to Optimization, Coding Theory
- Developer, operations research analyst, cryptographer

COMMUNICATION STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
In this exciting, highly interactive program, you’ll explore how our everyday forms of communication create meaning and shape our perspective of the world. Through creative, collaborative, and critical engagement, you’ll prepare for a career in public relations, broadcasting, teaching, or marketing.
- Persuasion, Crisis Communication, Digital Presentations
- Strategic planning officer, communications officer, digital media coordinator

COMPUTATIONAL MATHEMATICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Get ready to solve industrial-sized problems. In one of the world’s top schools for math and computer science, learn to analyze data sets and formulate to better understand the world around us. You’ll develop computer modeling skills to tackle mathematical problems found in business, economics, engineering, finance, medicine, and science.
- Data Structures and Data Management, Logic and Computation, Computer Simulation of Complex Systems
- Project manager, enterprise architect, software developer

COMPUTER ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Why choose? Develop software savvy and hardware know-how. Build and test computer hardware and software in our state-of-the art labs. You’ll work with everything from smartphones to massive engineered systems in networked environments. Plus, gain valuable work experience in Waterloo Region: a high-tech hub home to more than 1,500 technology companies.
- Systems Programming and Concurrency, Computer Networks, Computational Intelligence
- Full stack software development, embedded platform engineering, data analytics

COMPUTER SCIENCE / DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (E or M, Bachelor of Computer Science or Bachelor of Mathematics) Co-op available
Earn a degree that computes. At one of the world’s best schools for computer science, you’ll develop a broad understanding in areas including systems and networks, algorithms, and software engineering. With 70+ computer science courses and loads of options and electives, you’ll have lots of freedom to explore your interests. Questions? Email future-ugrad@cs.uwaterloo.ca.
- Designing Functional Programs, Data Structures and Data Management, The Social Implications of Computing
- Software developer, web developer, business or risk modelling analyst

COMPUTING AND FINANCIAL MANAGEMENT / SCHOOL OF ACCOUNTING AND FINANCE AND DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (E, Bachelor of Computing and Financial Management) Co-op only
Develop the know-how, networks, and experience to land a career in computer science or finance – or both. Combine your interdisciplinary studies with six co-op work terms in software development, banking, investments, risk management, or insurance to set yourself apart in a competitive marketplace. Questions? Email cfm@uwatertlo.ca.
- Object-Oriented Software Development, Regression and Forecasting Methods in Finance, Equity Investments
- Software developer, quantitative analyst, investment banking analyst

DATA SCIENCE / DAVID R. CHERTON SCHOOL OF COMPUTER SCIENCE (M, Bachelor of Computer Science or Bachelor of Mathematics) Co-op available
Make sense of the tsunami of data produced by business, scientific, and social activity. Develop the foundation in computing systems, data analytics, statistics, and machine learning you need to extract meaningful information from data. You’ll graduate with the skills to predict trends and help governments and businesses make better decisions.
- Computer Organization and Design, Data Visualization, Data Structures and Data Management
- Data scientist, statistician, business analyst

EARTH SCIENCES / FACULTY OF SCIENCE (M, Bachelor of Science) Co-op available
Launch a career that rocks. Explore the world under your feet in close-knit classes and through field experiences led by professors known internationally for their geological and water research. You’ll graduate ready to develop meaningful environmental protection plans, predict natural disasters, advance health standards for water, and more.
- Earth System Science, Petrography, Mineralogy
- Geology, Geophysics, Hydrogeology
- Hydrogeologist, geologist, geophysicist

ECONOMICS / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
From piggy banks to the World Bank, learn how wealth is produced, distributed, and consumed – and how it shapes society, politics, and culture. You’ll cover the fundamentals of micro- and macro-economics and analyze how these principles play out in a wide range of sectors, including finance, public policy, and international economics.
- Economics of Sport, Business Finance, Environmental Economics
- Econometrics, Finance, Public Policy
- Financial planner, marketing research manager, economist, financial analyst, international finance manager

ELECTRICAL ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Set yourself up for an electrifying future – explore electronic devices, control systems, and digital systems in some of North America’s best electrical engineering student labs. By mastering the design principles required to build the latest technologies in power, information, and energy, you’ll open the door to hundreds of possible careers!
- Semiconductor Physics and Devices, Power Systems and Smart Grids, Electromagnetic Fields and Waves
- Communications and Signal Processing
- Autonomous vehicle control, renewable energy development, sensor and actuator design

ENGLISH / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Go way beyond emojis. Our 150+ undergraduate courses give you all kinds of opportunity to explore the written word. Examine English literature, language, and new media while honing your skills as a communicator. Choose one of three majors: Literature, Literature and Rhetoric, or Rhetoric, Media, and Professional Communication.
- Popular Potter, Game Studies, Global Shakespeare
- Creative Writing, Digital Media Studies, Global Literatures, Technical Writing
- Communications manager, media relations specialist, technical writer, publisher, social media strategist

ENVIRONMENT AND BUSINESS / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op only
- Eco-warrior, meet business mogul. The only program of its kind in Canada, this degree gives you in-depth knowledge of environmental issues and the business world. Cover everything from stakeholder engagement and industrial ecology to finance, project management, marketing, and more. Then, put it all into practice in co-op work terms.
- International Corporate Responsibility, Green Entrepreneurship, Business Finance
- Sustainability analyst, environmental stewardship manager, environmental policy advisor
ENVIRONMENT, RESOURCES AND SUSTAINABILITY / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Co-op available
Become a sustainability superhero. Use insights from the natural, physical, and social sciences to help solve some of the world’s biggest environmental challenges – from water scarcity to pollution to loss of biodiversity. Learn about conserving and restoring ecosystems, and explore issues in environmental politics, policy, and governance.
● Communities and Sustainability, Environmental and Sustainability Assessment, Ecosystem Assessment
● Territorial and wetland biologist, sustainability policy analyst, sustainable energy consultant

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

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

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

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

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

GLOBAL BUSINESS AND DIGITAL ARTS / FACULTY OF ARTS (E, Bachelor of Global Business and Digital Arts) Regular system of study only
Lead business into the future through the power of digital media. Explore cross-cultural communication and management, digital design, and emerging technologies. Spend your upper years at the Stratford School of Interaction Design and Business, and enhance your learning with a paid internship. Questions? Email stratfordprograms@uwaterloo.ca.
● User experience designer, social media manager, digital marketing specialist, project manager

HEALTH STUDIES / FACULTY OF APPLIED HEALTH SCIENCES (E, Bachelor of Science) Co-op available
It’s true: an ounce of prevention is worth a pound of cure. Learn how to promote healthy lifestyles and improve health-care systems by combining the science and social aspects of health. You’ll graduate ready to tackle global epidemics, transform public health policy, and more – or pursue further studies in medicine, epidemiology, or nursing.
● Canadian Health Systems; Development, Aging, and Health; Environmental Toxicology and Public Health
● Gerontology, Health Informatics, Health Research, Pre-Clinical
● Health professional (e.g., medical doctor, nurse, epidemiologist, occupational therapist, midwife, genetic counselor), research coordinator, health informatics consultant

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

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

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

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

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

Choose from four specializations to prepare for professional programs in medicine, chiropractic, or physiotherapy.

- Health professional (e.g., medical doctor, physical therapist, occupational therapist, athletic therapist, kinesiologist, chiropractor), ergonomist, rehabilitation specialist

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

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

- Collaboration, Design Thinking, and Problem Solving: Nature of Scientific Knowledge; Creative Thinking
- Collaborative Design; Science, Technology, and Society

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

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

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

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

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

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

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

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

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

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

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

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

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

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

**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

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

Do 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 for a master’s or doctoral program.

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

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

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

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

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

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

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

Mathematics / Faculty of Mathematics
(E, Bachelor of Mathematics) Co-op available

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

Mathematics/Chartered Professional Accountancy / Faculty of Mathematics and School of Accounting and Finance
(E, Bachelor of Mathematics) Co-op only
Really understand the numbers. In this one-of-a-kind program, you'll earn a Bachelor of Mathematics as you prepare for a career as a Chartered Professional Accountant (CPA). You'll acquire a strong background in the mathematical tools of your choice, along with equally focused studies in accounting, economics, and business.
- Introduction to Financial Accounting, Cost Management Systems, Corporate Finance
- Accountant, controller, auditor

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

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

Mechanical Engineering / Faculty of Engineering
(E, Bachelor of Applied Science) Co-op only
Put your career in gear. This program gives you a broad foundation in all aspects of mechanical design – and lots of opportunities to get your hands dirty in our well-equipped labs. You'll study factors like the environment, safety, materials and more, so you'll graduate with the knowledge to design everything from switches to spacecrafts.
- Aerodynamics, Industrial Metallurgy, Electromechanical Devices and Power Processing, Heat Transfer
- Design of aerospace accessories, manufacturing of wind turbines, research and development in automotive technologies

Mechantronics 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 hands-on experience creating sophisticated electromechanical devices.
- Sensors and instrumentation, Microprocessors and Digital Logic, Structure and Properties of Materials
- Manufacturing and programming of robotic devices, design of biomedical instruments, and design and creation of wearable technology

Medieval Studies / Faculty of Arts
(M, Bachelor of Arts) Co-op available
Explore the exciting science of drug discovery. You'll take courses in computer-aided drug design and gain valuable work experience in places like pharmaceutical companies and hospitals. By graduation, you'll understand how to design, synthesize, and evaluate potential medications – ready to create the life-saving treatments of tomorrow.
- Chemical Kinetics, Transition Element Compounds and Inorganic Materials, Fundamentals of Metabolism
- Medicinal chemist, research chemist, synthetic chemist

Music / Faculty of Arts
(M, Bachelor of Arts)
Co-op available
Take advantage of the vital intersection of music and technology, for a career in the music industry – Canada’s fastest-growing industry! From professional recording and sound mixing, to music education and performance, there’s a path for anyone interested in music.
- Soundtracks: Music in Film
- Teacher, performer, associate pastor of music, music store owner, recording studio owner

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

Choose a degree that can change the world. Develop diverse approaches to understanding conflict and promoting peace through Canada’s first peace studies program. Discover how to transform conflict's violent potential into first peace studies program. Discover how to transform conflict's violent potential into a creative force for positive change. Gain experience through an internship locally or in a former conflict zone abroad.

■ Community development officer, international development specialist, social services worker, policy advisor, mediation consultant, lawyer

PHARMACY / SCHOOL OF PHARMACY (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, Medical Microbiology
■ Registered pharmacist; work in community practice, hospitals, and family health teams

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

Become the next Einstein (wild hair optional). Understand how the universe works: from quantum particles and exotic states of matter to curved space-time and black holes. In one of Canada’s largest and most comprehensive physics programs, prepare for graduate studies or a wide range of careers requiring advanced problem-solving skills.

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

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

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

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

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

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

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

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

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

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

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

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

■ Learning Disabilities, Basic Research Methods, Human Neurophysiology
■ Mental health worker, research and development manager, human resources manager

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

Major in the science of the human mind. Investigate areas like neuroscience, cognition, as well as clinical, developmental, and social psychology in one of North America’s top psychology departments. You’ll delve into research methods and data analysis – great preparation for further studies in medicine, speech pathology, or other health fields.

■ Psychopathology, Advanced Data Analysis, Developmental Psychology
■ Neuropsychologist, child psychologist, psychiatrist

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

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

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

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

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

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

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

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

■ Program Management and Evaluation; Play, Creativity, and Child Development; Leisure and Social Justice
■ Event Management, Tourism
■ Community recreation programmer, program and support services manager, recreation manager
RECREATION AND SPORT BUSINESS / FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts) Co-op available
You love sports. So make it your career with this unique degree. Gain a solid understanding of recreation and build the business expertise you need to excel in different aspects of the sports industry – including marketing, communications, HR, and finance. Learn from experts during your classes, internships, or our exchange program with Walt Disney World Resort.

■ Principles of High Performance Organizations in Recreation and Sport, Advanced Program Evaluation in Leisure Services, Mobilizing Resources for Recreation and Sport Delivery
■ Event Management, Tourism
■ Recreation and events director, marketing manager, sport programming manager

RELIGIOUS STUDIES / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Explore the fundamental beliefs that bind us – and divide us. Discover the world’s great religions through more than 100 undergraduate courses covering Western and Eastern religions, the history of Christianity, biblical studies, theology, ethics, sociology, and the arts. Round off your degree with an optional four-month trek visiting holy sites across India.

■ Religion in Popular Film, Sacred Beauty: Religion and the Art of Friendship
■ Clinical therapist, interfaith chaplain, international development agency director

SOCIAL DEVELOPMENT STUDIES / FACULTY OF ARTS (E or M, Bachelor of Arts) Co-op available through Honours Arts or Honours Arts Business
Solve social issues at the local, national, and global level. Find your voice through the study of psychology, sociology, social development, and social work in this program. Focus your studies in one of five specializations and gain hands-on experience for your future career. Apply through Renison to begin this major in first year.

■ Changing Concepts of Childhood, Social Work with Families, Positive Psychology
■ Child protection worker, teacher, social policy developer, human resources manager

SOCIAL WORK / RENISON UNIVERSITY COLLEGE (Bachelor of Social Work) Regular system of study only
Have a hunger to help others? Prepare for a rewarding career while splitting your time between the classroom and in-field placements. This program is only available to students with an undergraduate degree. For a strong foundation, consider enrolling in Social Development Studies first. Questions? Email renison.socialwork@uwaterloo.ca.

■ Diversity and Empowerment, Mental Health and Addiction Issues, Social Work with Older Adults
■ Social worker, mental health clinician, counselor, therapist

SOFTWARE ENGINEERING / FACULTY OF ENGINEERING AND SOFTWARE ENGINEERING
(realized by the Software Engineering Program)
Learn about research methods and statistical techniques, and design and develop software systems with quality, usability, and security in mind. Graduates have gone on to work in areas such as software engineering, systems development, and web development.

■ Programming Principles, Logic and Computation, Machine Learning, Computer Vision
■ Design of operating systems, development of security systems, analysis and maintenance of web applications

SPANISH / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
Say hola to an in-depth understanding of the Hispanic world. Explore the richness of Hispanic literature and culture while learning one of the world’s most popular languages. Take advantage of our exchanges to Spain or Latin America, and consider adding a Diploma in Spanish-English Translation – one of only two such diplomas in Canada.

■ Poetry of the Tango, Introduction to Spanish Business Translation, The Hispanic World Through Literature and the Arts
■ Spanish/English Translation
■ Librarian, marketing manager, senior manager, translator

STATISTICS / FACULTY OF MATHEMATICS (M, Bachelor of Mathematics) Co-op available
Earn a degree that’s highly significant 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. In today’s data-driven world, these are skills in high demand.

■ Applied Probability, Sampling and Experimental Design, Applied Linear Models
■ Biostatistician, business intelligence specialist, software quality analyst

SYSTEMS DESIGN ENGINEERING / FACULTY OF ENGINEERING (E, Bachelor of Applied Science) Co-op only
Take a creative, interdisciplinary approach to solving engineering problems. This flexible program features design courses, labs, and team-based learning that focus on the big picture. You’ll develop skills from multiple engineering fields, graduating ready to tackle challenges that lie at the interface of society, technology, and the environment.

■ Human Factors in Design, Systems Models, Pattern Recognition, Machine Learning
■ Complex systems analyst, physical and digital device designer, product manager

THEATRE AND PERFORMANCE / FACULTY OF ARTS (M, Bachelor of Arts) Co-op available
All the world’s a stage. Find your place in one of Canada’s most performance-intensive drama programs. Write theatre reviews, study stage direction, and reinvent theatre for today. Focus your studies in acting, directing, technical theatre, or theory; 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

THERAPEUTIC RECREATION / FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts) Co-op available
Help people get more out of life. You’ll learn how to enhance quality of life by improving physical and mental health through recreation programs that foster inclusivity and strengthen the cultural fabric of a community. Combine practical courses with hands-on experience through co-op, volunteer placements, and a required 560-hour internship in fourth year.

■ Foundations of Therapeutic Recreation Practice, Therapeutic Recreation Facilitation Techniques, Therapeutic Recreation: Physical Disabilities
■ Event Management, Tourism
■ Recreation therapist, elder life specialist, occupational therapist

TOURISM DEVELOPMENT / FACULTY OF APPLIED HEALTH SCIENCES (M, Bachelor of Arts) Co-op available
Want a career in tourism – the world’s largest industry? This is your boarding call. Learn how to plan and develop tourism experiences in environmentally and culturally sensitive ways. Hone those skills in a 105-hour practicum, or take your learning off-campus with a study-abroad term at Walt Disney World Resort.

■ Outdoor Recreation Resources Management, Tourism Analysis, Event Management
■ Event Management, Tourism
■ Festival and events coordinator, policy researcher, director of parks and recreation
Admission averages depend on the number of applications we receive and the number of spaces available. The ranges listed below are based on previous years. Visit our website for the most up-to-date 2021 admissions information.

uwaterloo.ca/future/admissions

### Applied Health Sciences

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum Admission Average/Additional Requirements</th>
<th>Required Courses*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Health Studies</td>
<td>Low 80s regular, mid-80s co-op.</td>
<td>Any Grade 12 U English (min. 70%), Biology (min. 70%), Chemistry (min. 70%), any Grade 12 U Mathematics (min. 70%)</td>
</tr>
<tr>
<td>Kinesiology</td>
<td>Low 80s regular, mid-80s co-op.</td>
<td>Any Grade 12 U English (min. 70%), Advanced Functions (min. 70%), Chemistry (min. 70%), one of Biology (min. 70%) or Physics (min. 70%)</td>
</tr>
<tr>
<td>Public Health</td>
<td>Low 80s regular, mid-80s co-op.</td>
<td>Any Grade 12 U English (min. 75%), any Grade 12 U Mathematics (min. 70%)</td>
</tr>
<tr>
<td>Recreation and Leisure Studies†</td>
<td>Low 80s. Majors: Recreation and Leisure Studies, Recreation and Sport Business, Therapeutic Recreation, Tourism Development.</td>
<td>Any Grade 12 U English (min. 70%)</td>
</tr>
</tbody>
</table>

### Arts

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum Admission Average/Additional Requirements</th>
<th>Required Courses*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Financial Management</td>
<td>Mid-80s. Accounting and Financial Management Admissions Assessment (AFMAA) interview and trait assessment required.</td>
<td>Any Grade 12 U English (min. 75%), Advanced Functions (min. 75%), Calculus and Vectors (min. 75%)</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>Low 80s.</td>
<td>Any Grade 12 U English (min. 75%)</td>
</tr>
<tr>
<td>Honours Arts† (Waterloo, St. Jerome’s, Renison); Honours Arts and Business†, Social Development Studies (Renison)</td>
<td>Low 80s. Majors: Anthropology; Classical Studies; Communication Studies; Economics; English; Fine Arts; French; Gender and Social Justice; German; History; Legal Studies; Liberal Studies; Medieval Studies; Music; Peace and Conflict Studies; Philosophy; Political Science; Psychology; Religious Studies; Sexuality, Marriage, and Family Studies; Social Development Studies; Sociology; Spanish; Theatre and Performance. After applying to Honours Arts and Business, you may co-register through St. Jerome’s or Renison.</td>
<td>Any Grade 12 U English (min. 70%)</td>
</tr>
</tbody>
</table>

### Computing and Financial Management

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum Admission Average/Additional Requirements</th>
<th>Required Courses*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computing and Financial Management</td>
<td>Low to mid-90s. AIF required.</td>
<td>Any Grade 12 U English (min. 75%), Advanced Functions, Calculus and Vectors, one other Grade 12 U course</td>
</tr>
</tbody>
</table>

### Engineering

**For all Engineering Programs: AIF Required**

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum Admission Average/Additional Requirements</th>
<th>Required Courses*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Architecture</td>
<td>Mid-80s. AIF required. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.</td>
<td>English (ENG4U – min. 75%), Advanced Functions (min. 70%), Calculus and Vectors (min. 70%), Physics (min. 70%)</td>
</tr>
<tr>
<td>Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology</td>
<td>Mid-to high 80s. Computer, Electrical, Mechanical, Mechatronics, Systems Design High 80s to low 90s. Biomedical Low to mid-80s. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.</td>
<td>Advanced Functions (min. 70%), Calculus and Vectors (min. 70%), Chemistry (min. 70%), English (ENG4U – min. 70%), Physics (min. 70%)</td>
</tr>
</tbody>
</table>

NOTES

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

† Choose your major

* Grade 12 U unless otherwise specified.

Minimum requirements: six Grade 12 U or M courses, including all required courses.
**Software Engineering**

<table>
<thead>
<tr>
<th>PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS</th>
<th>REQUIRED COURSES*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Software Engineering Low to mid-90s. AIF required. Experience developing well-structured modular programs is required. Online video interview is required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.</td>
<td>Advanced Functions (min. 70%), Calculus and Vectors (min. 70%), Chemistry (min. 70%), English (ENG4U – min. 70%), Physics (min. 70%)</td>
</tr>
</tbody>
</table>

**Environment**

<table>
<thead>
<tr>
<th>PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS</th>
<th>REQUIRED COURSES*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Environment and Business; Environment, Resources and Sustainability; Geography and Environmental Management; International Development Low 80s.</td>
<td>Any Grade 12 U English (min. 70%)</td>
</tr>
<tr>
<td>Geography and Aviation Low 80s. Program Briefing Session and Transport Canada Category 1 Medical Certification required.</td>
<td>English (ENG4U – min. 70%), any Grade 12 U Mathematics (min. 70%)</td>
</tr>
<tr>
<td>Geomatics Low 80s.</td>
<td>Any Grade 12 U English (min. 70%), any Grade 12 U Mathematics (min. 70%)</td>
</tr>
<tr>
<td>Knowledge Integration Low 80s.</td>
<td>Any Grade 12 U English (min. 75%), any Grade 12 U Science (min. 75%), any Grade 12 U Mathematics (min. 75%)</td>
</tr>
<tr>
<td>Planning Low 80s.</td>
<td>Any Grade 12 U English (min. 75%)</td>
</tr>
</tbody>
</table>

**Mathematics**

Any Grade 12 U Mathematics (min. 70%)

**Science**

<table>
<thead>
<tr>
<th>PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS</th>
<th>REQUIRED COURSES*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Mid-90s.</td>
<td>Advanced Functions, Calculus and Vectors, any Grade 12 U English, one other Grade 12 U course</td>
</tr>
<tr>
<td>Computer Science† Low to mid-90s. Majors: Computer Science, Data Science.</td>
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<tr>
<td>Mathematics/Chartered Professional Accountancy High 80s.</td>
<td></td>
</tr>
<tr>
<td>Mathematics/Business Administration‡ High 80s. Major: Information Technology Management.</td>
<td></td>
</tr>
<tr>
<td>Mathematics/Financial Analysis and Risk Management High 80s.</td>
<td></td>
</tr>
</tbody>
</table>

**Optometry**

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

**Pharmacy**

Minimum overall university average of 75%. See School of Pharmacy website for required courses. High school students may qualify for Conditional Admission to Pharmacy (CAP) status. Completion of at least two years of university or post-secondary studies with specific course requirements, Admission Information Form (AIF), reference, online assessment of personal characteristics (CASPer), interview, and Fundamental Skills Assessment (FSA).

**Social Work**

Minimum 70% average in university studies. This program is offered through Renison University College. Three- or four-year Bachelor of Arts (or equivalent) with a minimum of six units in the social sciences, including 10 prerequisite courses from the Renison curriculum or equivalents. Required courses and other admission details are available online.
**OUT-OF-PROVINCE ADMISSION REQUIREMENTS 2021**

**PROGRAM/ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS**

<table>
<thead>
<tr>
<th>ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT</th>
<th>BRITISH COLUMBIA AND YUKON</th>
<th>MANITOBA</th>
<th>NEW BRUNSWICK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>APPLIED HEALTH SCIENCES</strong></td>
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</tr>
<tr>
<td>Health Studies <strong>Low 80s</strong> regular, mid-80s co-op.</td>
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<td>Low 80s.</td>
<td>Low 80s.</td>
</tr>
<tr>
<td>Biology 30*, Chemistry 30*, English Language Arts 30-1*, one of Mathematics 30-1*, Mathematics 30-2*, or Mathematics 31*</td>
<td>Biology 12*, Chemistry 12*, English 12*, one Grade 12 Mathematics* or AP Calculus*</td>
<td>Biology 405*, Chemistry 405*, English 405*, one of Pre-Calculus Mathematics 405*, Calculus 454A*, Calculus 455* or AP Calculus*</td>
<td>Biology 121* or 122*, Chemistry 121* or 122*, English 121* or 122*, Pre-Calculus 120B* or Calculus 120*</td>
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</tr>
<tr>
<td>Kinesiology <strong>Low 80s</strong> regular, mid-80s co-op.</td>
<td>Mathematics 30-1<em>or 30-2</em>, Chemistry 30*, one of Biology 30* or Physics 30*, English Language Arts 30-1*</td>
<td>Pre-Calculus 12*, Chemistry 12*, one of Biology 12* or Physics 30*, English 12*</td>
<td>Pre-Calculus Mathematics 405*, Chemistry 405*, one of Biology 405* or Physics 405*, English 405*</td>
</tr>
<tr>
<td></td>
<td>Pre-Calculus Mathematics 405*, Chemistry 405*, one of Biology 405* or Physics 405*, English 405*</td>
<td></td>
<td>Pre-Calculus 120B*, Chemistry 121* or 122*, one of Biology 121* or 122*; English 121* or 122*</td>
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<tr>
<td>Public Health <strong>Low 80s</strong> regular, mid-80s co-op.</td>
<td>English Language Arts 30-1**, one of Mathematics 30-1*, Mathematics 30-2*, or Mathematics 31*</td>
<td>English 12**, one Grade 12 Mathematics* or AP Calculus*</td>
<td>English 405**, one of Pre-Calculus Mathematics 405*, Calculus 454A*, Calculus 455*, or AP Calculus*</td>
</tr>
<tr>
<td></td>
<td>English 405**, one of Pre-Calculus Mathematics 405*, Calculus 454A*, Calculus 455*, or AP Calculus*</td>
<td></td>
<td>English 121** or 122**, Pre-Calculus 120B* or Calculus 120*</td>
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<tr>
<td>Recreation and Leisure Studies¹ <strong>Low 80s.</strong></td>
<td>English Language Arts 30-1*</td>
<td>English 12*</td>
<td>English 405*</td>
</tr>
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<td>English 12*</td>
<td>English 405*</td>
<td>English 121* or 122*</td>
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<tr>
<td><strong>ARTS</strong></td>
<td></td>
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</tr>
<tr>
<td>Accounting and Financial Management <strong>Mid-80s.</strong></td>
<td>English Language Arts 30-1**, Mathematics 30-1**, Mathematics 31**, Pre-Calculus 12*, Calculus 12**, Calculus 12** or AP Calculus**</td>
<td>English 405**, Pre-Calculus Mathematics 405*, Calculus 454A*, Calculus 455**, or AP Calculus**</td>
<td>English 121** or 122**, Pre-Calculus 120B*, Calculus 120*</td>
</tr>
<tr>
<td></td>
<td>English 405**, Pre-Calculus Mathematics 405*, Calculus 454A*, Calculus 455**, or AP Calculus**</td>
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<td></td>
</tr>
<tr>
<td>Honours Arts² (Waterloo, St. Jerome’s, Renison), Honours Arts and Business³, Social Development Studies (Renison) <strong>Low 80s.</strong></td>
<td>English Language Arts 30-1*</td>
<td>English 12*</td>
<td>English 405*</td>
</tr>
<tr>
<td></td>
<td>English Language Arts 30-1*</td>
<td>English 12*</td>
<td>English 121* or 122*</td>
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</tr>
<tr>
<td>Global Business and Digital Arts <strong>Low 80s.</strong></td>
<td>English Language Arts 30-1**</td>
<td>English 12**</td>
<td>English 405**</td>
</tr>
<tr>
<td></td>
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<td>English 405**</td>
<td>English 121** or 122**</td>
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<tr>
<td><strong>COMPUTING AND FINANCIAL MANAGEMENT</strong></td>
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</tr>
<tr>
<td>Computing and Financial Management <strong>Low to mid-90s. AIF required.</strong></td>
<td>Mathematics 30-1, Mathematics 31, English Language Arts 30-1**</td>
<td>Pre-Calculus 12, Calculus 12 or AP Calculus, English 12**</td>
<td>Pre-Calculus Mathematics 405; one of Calculus 454, 455*, or AP Calculus; Calculus; English 405**</td>
</tr>
<tr>
<td></td>
<td>Pre-Calculus Mathematics 405; one of Calculus 454, 455*, or AP Calculus; Calculus; English 405**</td>
<td></td>
<td>Pre-Calculus 120B, Calculus 120, English 12** or 122**</td>
</tr>
<tr>
<td></td>
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</tr>
<tr>
<td><strong>ENGINEERING – For all Engineering programs: AIF required.</strong></td>
<td></td>
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</tr>
<tr>
<td>Architecture <strong>Mid-80s.</strong> AIF required.</td>
<td>English Language Arts 30-1**, Mathematics 30-1**, Mathematics 31*, Physics 30*</td>
<td>English 12**, Pre-Calculus 12*, Calculus 12* or AP Calculus*, English 12*</td>
<td>English 405**, Pre-Calculus Mathematics 405*, one of Calculus 454A*, 455*, or AP Calculus*; Calculus 455* or AP Calculus*; Physics 405*</td>
</tr>
<tr>
<td></td>
<td>Pre-Calculus 12*, Calculus 12* or AP Calculus*, Calculus 455* or AP Calculus*; Physics 405*</td>
<td>Pre-Calculus 120B*, Calculus 120*, Chemistry 121* or 122*, English 121* or 122*, Physics 121* or 122*</td>
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</tr>
<tr>
<td>Architectural, Chemical, Civil, Environmental, Geotechnical, Management, Nanotechnology <strong>Mid-to high 80s.</strong> Computer, Electrical, Mechanical, Mechatronics, Systems Design <strong>High 80s to low 90s.</strong> Biomedical <strong>Low to mid-90s.</strong> AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.</td>
<td>Mathematics 30-1*, Mathematics 31*, Chemistry 30*, English Language Arts 30-1*, Physics 30*</td>
<td>Pre-Calculus 12*, Calculus 12* or AP Calculus*, Chemistry 12*, English 12*, Physics 12*</td>
<td>Pre-Calculus Mathematics 405*; one of Calculus 454A*, 455*, or AP Calculus*; Chemistry 454A*, 455*, or AP Calculus*; English 405*, Physics 405*</td>
</tr>
<tr>
<td></td>
<td>Pre-Calculus Mathematics 405*; one of Calculus 454A*, 455*, or AP Calculus*; Chemistry 454A*, 455*, or AP Calculus*; English 405*, Physics 405*</td>
<td>Pre-Calculus 120B*, Calculus 120*, Chemistry 121* or 122*, English 121* or 122*, Physics 121* or 122*</td>
<td></td>
</tr>
</tbody>
</table>
### New Brunswick

High school diploma with six academic courses at the Grade 12 level, or higher. For programs requiring English 40S, Language and Technical Communication 40S will not be accepted.

### Nova Scotia

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

### Prince Edward Island

High school diploma with five academic courses at the Grade 12 level, including all required courses. Academic subject(s) do not include courses from the Applied Design, Skills, and Technologies Curriculum (ADST), with the exception of Economics 12 and Financial Management 12. While B.C. will automatically send us your marks electronically, they will not arrive in time for our admissions decisions. Please upload a copy of your report card on Quest, your Waterloo applicant portal.

### Quebec (CEGEP)

One year of CEGEP with a minimum of 12 semestered academic courses. CEGEP admission averages may differ from high school admission averages. uwwaterloo.ca/future/admissions. Chemistry I and II can also be referred to as General Chemistry and Chemistry of Solutions. Transfer credits may be granted for most programs: uwwaterloo.ca/future/transfer.

### Saskatchewan

High school diploma with five academic courses at the Grade 12 level.

### International Baccalaureate

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 Math: 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 final grade; total = overall minimum grade total.

<table>
<thead>
<tr>
<th>Nova Scotia</th>
<th>Prince Edward Island</th>
<th>Quebec (CEGEP)</th>
<th>Saskatchewan</th>
<th>International Baccalaureate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology 301*, Chemistry 302*; English 301*; one of Advanced Mathematics 301* or 320* or Mathematics 320* or AP Calculus*</td>
<td>Biology 12 Academic*; Chemistry 12 Academic*; English 12 Academic*, one of Mathematics 12*; Pre-Calculus 12*, Calculus 12*</td>
<td>Biology 621A*, Chemistry 611A* or 621A*, English 621A*, Mathematics 611B* or 621B*</td>
<td>Biology 30*; Chemistry 30*; English Language Arts 30A* and 30B*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*</td>
<td>Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min 4 in each. HL or SL Chemistry, and HL or SL Biology, min 4 in each. HL or SL English A, min 4, or HL English B, min 5. Total 28.</td>
</tr>
<tr>
<td>English 301*; one of Advanced Mathematics 301* or 320* or Mathematics 320* or AP Calculus*</td>
<td>English 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, Calculus 12*</td>
<td>Mathematics 621B*, Chemistry 611B* or 621B*, one of Biology 12 Academic* or Physics 12 Academic*, English 12 Academic*</td>
<td>Linear Algebra or Calculus I*; Chemistry I* and II*; one of Biology 12 Academic* or Physics 12, Calculus Mathematics plus either Electricity &amp; Magnetism* or Waves, Optics &amp; Modern Physics*; two English 603* or 604* series</td>
<td>Mathematics: HL or SL Analysis and Approaches, min 4. HL or SL Chemistry, min 4. One of HL or SL Physics or Biology, min 4. HL or SL English A, min 4, or HL English B, min 5. Total 27.</td>
</tr>
<tr>
<td>English 301*</td>
<td>English 12 Academic*</td>
<td>English 621A*</td>
<td>Two English 603* or 604* series</td>
<td>English Language Arts 30A* and 30B*</td>
</tr>
<tr>
<td>English 302*, one of Advanced Mathematics 301* or 320* or Mathematics 320* or AP Calculus*</td>
<td>English 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, Calculus 12*</td>
<td>English 621A*, Mathematics 611B* or 621B*</td>
<td>Two English 603* or 604* series, Linear Algebra* or Calculus I*</td>
<td>English Language Arts 30A* and 30B*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*; Two English 603* or 604* series</td>
</tr>
<tr>
<td>English 302*, one of Advanced Mathematics 301* or 320* or Mathematics 320* or AP Calculus*</td>
<td>English 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, Calculus 12*</td>
<td>Mathematics 621B*, Chemistry 611B* or 621B*, one of Biology 12 Academic* or Physics 12, Calculus Mathematics plus either Electricity &amp; Magnetism* or Waves, Optics &amp; Modern Physics*; two English 603* or 604* series</td>
<td>Two English 603* or 604* series, Linear Algebra* or Calculus I*</td>
<td>English Language Arts 20A* and 20B*</td>
</tr>
<tr>
<td>English 301*</td>
<td>English 12 Academic*</td>
<td>English 621A*</td>
<td>Two English 603* or 604* series</td>
<td>English Language Arts 30A* and 30B*</td>
</tr>
<tr>
<td>English 301*</td>
<td>English 12 Academic*</td>
<td>English 621A*</td>
<td>Two English 603* or 604* series</td>
<td>English Language Arts 30A* and 30B*</td>
</tr>
<tr>
<td>English 302*, one of Advanced Mathematics 301* or 320* or Mathematics 320* or AP Calculus*</td>
<td>English 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, Calculus 12*</td>
<td>Mathematics 611B, Mathematics 621B, Calculus 12 Academic*</td>
<td>Calculus I, Linear Algebra or Calculus II; two English 603* or 604* series</td>
<td>Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts 30A* and 30B*</td>
</tr>
<tr>
<td>English 302*, one of Advanced Mathematics 301* or 320*; one of Mathematics 320* or AP Calculus*, Physics 320*</td>
<td>English 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, Calculus 12 Academic*</td>
<td>Mathematics 621B*, Mathematics 621B*, Physics 621A*</td>
<td>Two English 603* or 604* series; Calculus I*; Calculus II* or Linear Algebra* or Calculus I*; Linear Algebra* or Calculus II*; Mechanics* plus either Electricity &amp; Magnetism* or Waves, Optics &amp; Modern Physics*</td>
<td>English Language Arts 20A* and 20B*; one of Calculus 30, Calculus 30 or AP Calculus; English Language Arts 20A* and 20B*</td>
</tr>
<tr>
<td>English 302*, one of Advanced Mathematics 301* or 320*; one of Mathematics 320* or AP Calculus*, Physics 320*</td>
<td>Pre-Calculus 12*, Calculus 12*, English 12 Academic*, Physics 12 Academic*</td>
<td>Mathematics 611B*, Mathematics 621B*, Chemistry 611A* or 621A*, English 621A*, Physics 621A*</td>
<td>Secondary Y Chemistry*; two English 603* or 604* series; Calculus I*; Calculus II* or Linear Algebra*; Mechanics*; one of Electricity &amp; Magnetism*; Waves, Optics &amp; Modern Physics*; Chemistry I* or Chemistry II*</td>
<td>Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts 20A* and 20B*</td>
</tr>
</tbody>
</table>

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**Admission Charts** | 43
### OUT-OF-PROVINCE ADMISSION REQUIREMENTS 2021 CONT.

<table>
<thead>
<tr>
<th>PROGRAM/ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS</th>
<th>ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT</th>
<th>BRITISH COLUMBIA AND YUKON</th>
<th>MANITOBA</th>
<th>NEW BRUNSWICK</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>SOFTWARE ENGINEERING</strong></td>
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<td></td>
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</tr>
<tr>
<td>Low to mid-90s. AIF required. Experience developing well-structured modular programs required. Online video interview required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.</td>
<td>Mathematics 30-1*, Mathematics 31*, Chemistry 30*, English Language Arts 30-1*, Physics 30*</td>
<td>Pre-Calculus 12*, Calculus 12 or AP Calculus*, Chemistry 12*, English 12*, Physics 12*</td>
<td>Pre-Calculus Mathematics 405*, one of Calculus 45A*, 455*, or AP Calculus*, Chemistry 455*, English 405*, Physics 405*</td>
<td>Pre-Calculus 120B*, Calculus 120*, Chemistry 121* or 122*, English 121* or 122*, Physics 121* or 122*</td>
</tr>
<tr>
<td><strong>ENVIRONMENT</strong></td>
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<tr>
<td>Low 80s.</td>
<td>English Language Arts 30-1*</td>
<td>English 12*</td>
<td>English 405*</td>
<td>English 121* or 122*</td>
</tr>
<tr>
<td><strong>Geomatics</strong> Low 80s.</td>
<td>English Language Arts 30-1* Math 30-1*, Math 30-2, or Math 31*</td>
<td>English 12*, one Grade 12 Math* or AP Calculus*</td>
<td>English 405*, one of Pre-Calculus Math 405*, Calculus 45A*, 455*, or AP Calculus*</td>
<td>English 121* or 122*, Pre-Calculus 120B* or Calculus 120*</td>
</tr>
<tr>
<td><strong>Knowledge Integration</strong> Low 80s.</td>
<td>English Language Arts 30-1* Math 30-1*, Math 30-2, or Math 31*</td>
<td>English 12*, one Grade 12 Math* or AP Calculus*</td>
<td>English 405*, one Math at the 40 level or higher, one Science at the 40 level or higher</td>
<td>English 121* or 122**, Pre-Calculus 120B** or Calculus 120**, one Science at the 121 or 122 level</td>
</tr>
<tr>
<td><strong>Planning</strong> Low 80s.</td>
<td>English Language Arts 30-1*</td>
<td>English 12**</td>
<td>English 405**</td>
<td>English 121* or 122**</td>
</tr>
</tbody>
</table>

| **MATHEMATICS** – For all Mathematics programs: AIF required. Participation in the Euclid and Canadian Senior Mathematics Contests is strongly recommended. |                                            |                            |          |                |
| Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Mid-90s. Business Administration (Laurier) and Mathematics (Waterloo) Double Degree Low 90s. Mathematics/Chartered Professional Accountancy High 80s. AIF required. Individual selection may vary. | Math 30-1, Math 31, English Language Arts 30-1 | Pre-Calculus 12, Calculus 12 or AP Calculus; English 12, Mathematics: HL Analysis and Approaches, min 6. | Pre-Calculus Math 405; one of Calculus 45A, 455, or AP Calculus; English 405 | Pre-Calculus 120B, Calculus 120, English 121 or 122 |
| Mathematics*. Mathematics/Business Administration*, Mathematics/Financial Analysis and Risk Management High 80s. AIF required. Individual selection may vary. | Math 30-1, Math 31, English Language Arts 30-1 | Pre-Calculus 12, Calculus 12 or AP Calculus; English 12, Mathematics: HL Analysis and Approaches, min 6. | Pre-Calculus Math 405; one of Calculus 45A, 455, or AP Calculus; English 405 | Pre-Calculus 120B, Calculus 120, English 121 or 122 |
| Computer Science*. Low to mid-90s. AIF required. Individual selection may vary. | Math 30-1, Math 31, English Language Arts 30-1 | Pre-Calculus 12, Calculus 12 or AP Calculus; English 12, Mathematics: HL Analysis and Approaches, min 6. | Pre-Calculus Math 405; one of Calculus 45A, 455, or AP Calculus; English 405 | Pre-Calculus 120B, Calculus 120, English 121 or 122 |

| **SCIENCE**                                        |                                            |                            |          |                |
| Biotechnology/Chartered Professional Accountancy Low 90s. Environmental Science, Honours Science, Life Sciences*, Physical Sciences*, Science and Business Low 80s. | English Language Arts 30-1*; Math 30-1*; Math 31*; two of Biology 30, Chemistry 30, Math 30-2, or Physics 30 | English 12*; Pre-Calculus 12, Calculus 12 or AP Calculus; two of Anatomy and Physiology 12 (formerly Biology 12), Chemistry 12, Foundations of Math 12, Geology 12, Physics 12, or Statistics 12 | English 405*, Pre-Calculus Math 405*, one of Calculus 45A*, 455*, or AP Calculus; two of Biology 405, Chemistry 405, or Physics 405 | English 121* or 122*, Pre-Calculus 120B*, Calculus 120*, two of Biology 121 or 122, Chemistry 121 or 122, Physics 121 or 122, or Foundations of Math 120 |
| Science and Aviation Low 80s. Program Briefing Session and Transport Canada Category 1 Medical Certification required. | English Language Arts 30-1*; Math 30-1*; Math 31*; two of Biology 30, Chemistry 30, Math 30-2, or Physics 30 | English 12*; Pre-Calculus 12, Calculus 12 or AP Calculus; two of Anatomy and Physiology 12 (formerly Biology 12), Chemistry 12, Foundations of Math 12, Geology 12, Physics 12, or Statistics 12 | English 405*, Pre-Calculus Math 405*, one of Calculus 45A*, 455*, or AP Calculus; two of Biology 405, Chemistry 405, or Physics 405 | English 121* or 122*, Pre-Calculus 120B*, Calculus 120*, two of Biology 121 or 122, Chemistry 121 or 122, Physics 121 or 122, or Foundations of Math 120 |
# Admission Requirements

## Newfoundland and Labrador

- For admission. Individual selection may vary.

## Nova Scotia


## Prince Edward Island

- Mathematics 611B; Mathematics 621B; Chemistry 611A or 621A; English 621A; Physics 621A

## Quebec (CEGEP)

- Pre-Calculus 20; Calculus 20; AP Calculus; Chemistry 20; English Language Arts A30* and B30*; Physics 30*

## Saskatchewan

- Pre-Calculus 30; Calculus 30 or AP Calculus; Chemistry 30; English Language Arts A30* and B30*; Physics 30*

## International Baccalaureate

- Mathematics: Analysis and Approaches and Physics (HL recommended), min 4 in each. Chemistry and English A, min 4 in each. One other HL or SL course, min 4. Total 32. 6s and 7s recommended for competitive programs.

### English 30

- English 12 Academic*; English 621A*

### English 30*, one of Mathematics 30 or 31, one of Mathematics 30 or 31, or one of Mathematics 30 or AP Calculus

- English 12 Academic*; one of Mathematics 12, Pre-Calculus 12*, or Calculus 12*

### English 30**, one Math** at the 3 level, one Science** at the 3 level

- English 12 Academic**; one of Mathematics 12**, Pre-Calculus 12**, or Calculus 12**; one Grade 12 academic Science**

### English 30

- English 12 Academic**; English 621A**

### English 30*, one of Mathematics 30 or 31, one of Mathematics 30 or AP Calculus

- Pre-Calculus 12, Calculus 12, English 12 Academic

### Calculus I, Linear Algebra or Calculus II, two English 603 or 604 series

- Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30

### Calculus I, Linear Algebra or Calculus II, two English 603 or 604 series

- Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30

### Calculus I, Linear Algebra or Calculus II, two English 603 or 604 series

- Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30

### English 30, one of Advanced Mathematics 30 or 31, or one of Mathematics 30 or AP Calculus

- Pre-Calculus 12, Calculus 12, English 12 Academic

### Mathematics 611B, Mathematics 621B, Chemistry 611A or 621A, English 621A, Physics 621A

### English 621A or 611B, Math 621B, English 621A

### Pre-Calculus 30; Calculus 30 or AP Calculus; Chemistry 30; English Language Arts A30* and B30*; Physics 30*

### Pre-Calculus 30; Calculus 30 or AP Calculus; Chemistry 30; English Language Arts A30* and B30*; Physics 30*

### Pre-Calculus 30; Calculus 30 or AP Calculus; Chemistry 30; English Language Arts A30* and B30*; Physics 30*

### Mathematics: Analysis and Approaches and Physics (HL recommended), min 4 in each. Chemistry and English A, min 4 in each. One other HL or SL course, min 4. Total 32. 6s and 7s recommended for competitive programs.
Let’s get started.

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

HOW DO I GET STARTED?

Your first stop is the Ontario Universities' Application Centre (OUAC) website: ouac.on.ca. If you’re currently studying in Ontario, use the 101 application. Your high school will automatically send us your transcripts.

If you’re studying outside Ontario, complete the 105 application and make arrangements to have your high school send us your transcripts. All of your official documents, including transcripts and English language test results, must be sent directly from the issuing institution or testing authority.

WHEN ARE MY APPLICATION AND SUPPORTING DOCUMENTS DUE?

<table>
<thead>
<tr>
<th>FALL TERM</th>
<th>DATE APPLICATION INFORMATION AND FEES MUST REACH OUAC</th>
<th>DATE DOCUMENTS MUST REACH WATERLOO</th>
</tr>
</thead>
<tbody>
<tr>
<td>September 2021 – Most programs</td>
<td>February 1, 2021</td>
<td>February 19, 2021</td>
</tr>
<tr>
<td>EXCEPTI0N</td>
<td>Conditional Admission to Pharmacy</td>
<td>February 1, 2021</td>
</tr>
<tr>
<td></td>
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<td>April 2, 2021 (AIF: March 1, 2021)</td>
</tr>
</tbody>
</table>

WHAT ABOUT ENGLISH LANGUAGE TEST SCORES?

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

<table>
<thead>
<tr>
<th>OPTION 1</th>
<th>OPTION 2</th>
<th>OPTION 3</th>
<th>OPTION 4</th>
<th>OPTION 5</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>INTERNET-</strong></td>
<td><strong>IELTS</strong></td>
<td><strong>CAEL</strong></td>
<td><strong>PTE (ACADEMIC)</strong></td>
<td><strong>ENGLISH FOR ACADEMIC SUCCESS</strong></td>
</tr>
<tr>
<td><strong>BASED TOEFL</strong></td>
<td><strong>6.5 overall,</strong></td>
<td><strong>70 overall,</strong></td>
<td><strong>63 overall,</strong></td>
<td><strong>75% overall</strong></td>
</tr>
<tr>
<td><strong>90 overall,</strong></td>
<td><strong>6.5 writing,</strong></td>
<td><strong>60 per band,</strong></td>
<td><strong>65 overall,</strong></td>
<td><strong>in 400 levels,</strong></td>
</tr>
<tr>
<td><strong>25 writing,</strong></td>
<td><strong>6.5 speaking,</strong></td>
<td><strong>70 writing,</strong></td>
<td><strong>65 writing,</strong></td>
<td><strong>75% academic,</strong></td>
</tr>
<tr>
<td><strong>25 speaking</strong></td>
<td><strong>6.0 reading,</strong></td>
<td><strong>70 speaking</strong></td>
<td><strong>65 speaking</strong></td>
<td><strong>75% oral,</strong></td>
</tr>
<tr>
<td><strong>6.0 listening</strong></td>
<td><strong>70 speaking</strong></td>
<td></td>
<td><strong>75% writing</strong></td>
<td></td>
</tr>
</tbody>
</table>

Q&A

WHAT’S AN ADMISSION INFORMATION FORM?

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

WILL MY AP OR IB COURSES BE CONSIDERED FOR TRANSFER CREDIT?

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

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

WHAT IF MY ENGLISH LANGUAGE TEST SCORES ARE TOO LOW?

If you’re academically admissible but don’t quite meet our English language requirements, you may be offered conditional admission through Waterloo’s English Language for Academic Studies (ELAS) or Bridge to Academic Success in English (BASE).
Tuition and Scholarships

Hard earned, well spent.

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

uwaterloo.ca/future/financing

Entrance Scholarships and Bursaries

See our website for a complete list of scholarships and awards.

$1,000 Merit Scholarship
85-89.9% admission average

$2,000 President's Scholarship
90-94.9% admission average

$5,000** President's Scholarship of Distinction
95%+ admission average

$500-$4,000 Entrance Bursaries (Ontario Students Only)
Awarded based on financial need

$8,400-$14,400+ first co-op work term earnings to help offset tuition

$15M in scholarships and bursaries awarded to first-year students in 2019

Tuition Fees (For Two Academic Terms)

<table>
<thead>
<tr>
<th>Program/Faculty</th>
<th>Canadian Tuition (SCAD)</th>
<th>International Tuition (Study Permit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting and Financial Management*, Applied Health Sciences, Arts</td>
<td>$7,700</td>
<td>$40,900</td>
</tr>
<tr>
<td>Architecture</td>
<td>$10,900</td>
<td>$59,700</td>
</tr>
<tr>
<td>Biotechnology/Chartered Professional Accountancy</td>
<td>$7,900</td>
<td>$42,900</td>
</tr>
<tr>
<td>Business Administration (Laurier) and Mathematics (Waterloo) Double Degree</td>
<td>$11,700</td>
<td>$45,500</td>
</tr>
<tr>
<td>Computer Science, Business Administration (Laurier) and Computer Science (Waterloo) Double Degree</td>
<td>$15,900</td>
<td>$61,300</td>
</tr>
<tr>
<td>Computing and Financial Management*</td>
<td>$9,300</td>
<td>$45,700</td>
</tr>
<tr>
<td>Engineering, Software Engineering</td>
<td>$17,100</td>
<td>$61,300</td>
</tr>
<tr>
<td>Environment</td>
<td>$7,700</td>
<td>$41,100</td>
</tr>
<tr>
<td>Global Business and Digital Arts</td>
<td>$12,900</td>
<td>$45,100</td>
</tr>
<tr>
<td>Mathematics/Business Administration</td>
<td>$9,300</td>
<td>$45,500</td>
</tr>
<tr>
<td>Mathematics/Chartered Professional Accountancy</td>
<td>$7,900</td>
<td>$44,100</td>
</tr>
<tr>
<td>Mathematics/Financial Analysis and Risk Management</td>
<td>$12,700</td>
<td>$45,500</td>
</tr>
<tr>
<td>Science</td>
<td>$7,700</td>
<td>$42,700</td>
</tr>
</tbody>
</table>

Notes: Amounts listed include incidental fees. Co-op fee of $734/term also applies. See the website for fee details. *Tuition is significantly higher in your upper years. **$2,000 awarded in first year, plus up to $3,000 in upper years.

Living Expenses (For Two Academic Terms)

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

Meal Plan
From $4,904 (lite) to $5,704 (hearty).

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

Books and Supplies
Most programs estimate $2,288 ($4,100 for Architecture students).

85% of first-year students received an entrance scholarship or bursary for fall 2019
OUR CAMPUS

Chart your path.

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

ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

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

VISIT US

Guided tours are available and can be booked through our website. uwaterloo.ca/future/visit

BUILDING LEGEND

| 1S | STUDENT SERVICES |
| 3C | RESIDENCES |
| 4C | UNIVERSITY COLLEGES |
| 5C | APPLIED HEALTH SCIENCES |
| ARTS | ARTS |
| ENG | ENGINEERING |
| ENV | ENVIRONMENT |
| MATH | MATHEMATICS |
| SCI | SCIENCE |

3 satellite campuses in Cambridge, Kitchener, and Stratford

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

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

APPLICATION QUESTIONS
myapplication@uwaterloo.ca

PROGRAM–RELATED QUESTIONS
Faculty of Applied Health Sciences
ahsinfo@uwaterloo.ca
Faculty of Arts
arts@uwaterloo.ca
Faculty of Engineering
enginfo@uwaterloo.ca
Faculty of Environment
envinfo@uwaterloo.ca
Faculty of Mathematics
mathinfo@uwaterloo.ca
Faculty of Science
science@uwaterloo.ca

OTHER WATERLOO CONTACTS
APPLICATION CHECKLIST

Your guide to full-time undergraduate studies at Waterloo.

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

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

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

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

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

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