

**DISCOVER  
YOUR  
STORY AT  
WATERLOO**

**INTERNATIONAL ADMISSIONS 2025**

**UNIVERSITY OF  
WATERLOO**



# YOU+ WATERLOO

Welcome  
to your next  
chapter,  
Warrior.

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

A place where your curiosity can thrive.

A place to find your passion through North America's largest co-op program.

A place to unleash your entrepreneurial spirit.

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

*Let's explore the story of you and Waterloo.*



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## ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

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

## WHY WATERLOO

From artificial intelligence to sustainability to social progress, the future is full of possibility – and uncertainty. As a Waterloo graduate, you'll be uniquely positioned to rise to the challenge: deeply curious, always engaged, and boldly driven to make the world better.



# CALLING ALL CHANGEMAKERS

**CANADA'S MOST INNOVATIVE UNIVERSITY**

for 30 out of the last 32 years (*Maclean's 2024*)

**FOUNDED IN 1957**

with engineering and co-operative education as cornerstones



# #1 COMPREHENSIVE RESEARCH UNIVERSITY

in Canada for the past 16 years (*Research Infosource 2023*)

## HOME OF DREAMERS AND DOERS

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

## ALTOGETHER UNSTOPPABLE

Discover the place where your passions and positive impact collide. Here, in the midst of thought-provoking professors, inspiring peers, workplace mentors, and startup advisors, you'll find your niche – and your network. They'll support your success, challenge you to dive deeper, and even share in your excitement about the things that light you up.

## JOIN THE SOLUTION

Forget four or five years down the road. Your future starts right here, right now. Dive into leading-edge academic programs, full-time work experiences, and exciting opportunities to launch your ideas. Graduate with the skills, knowledge, and mindset to make meaningful change in a complex world.

## DISCOVER THE WATERLOO DIFFERENCE

[uwaterloo.ca/future/rankings](https://uwaterloo.ca/future/rankings)

THE CITY



# CITY OF DREAMERS

## A PLACE TO ROAM AND FEEL AT HOME

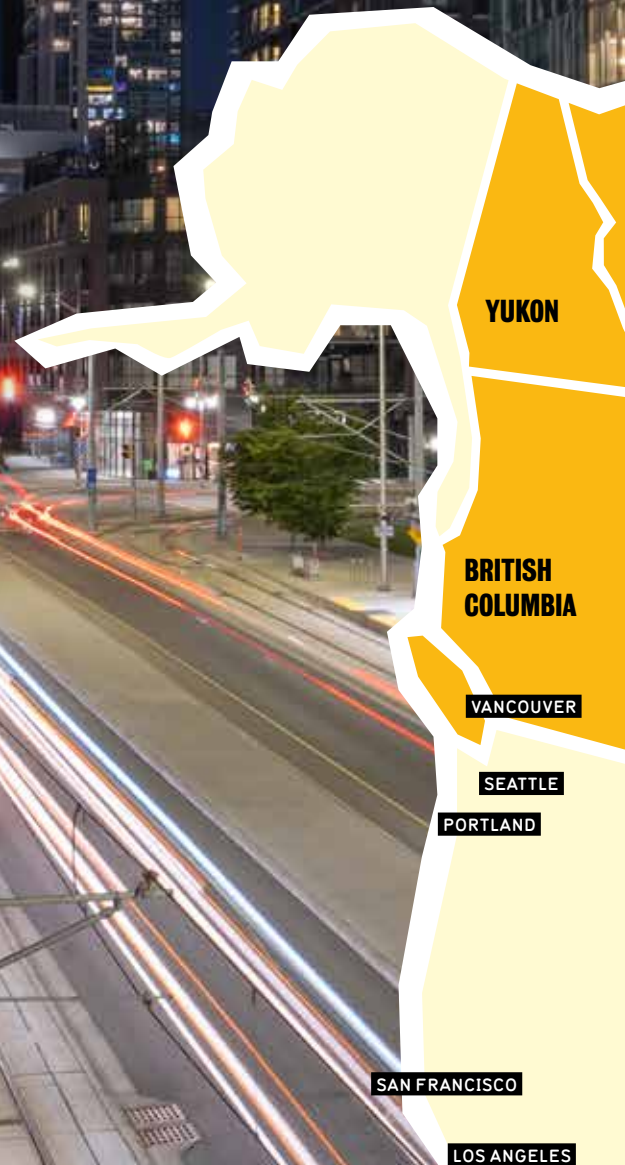
If you love the energy of a big urban centre – transportation, culture, and nightlife – with the charm and familiarity of a small town, you'll find your happy place in the city of Waterloo.

The interconnected cities of Kitchener and Waterloo flow into one another and are like one big city. Uptown Waterloo and downtown Kitchener restaurants, shops, cafés, music, and clubs are a quick walk, bike, train, or bus ride from campus.

**647,000+** people call the Region of Waterloo home

**#1** small tech talent market in North America (CBRE "Scoring Tech Talent" 2023 report)

PHOTO CREDIT: Explore Waterloo Region





## BALANCE WORK WITH PLAY

Need a break from the books? Warriors refuel with fun! Attend any of the area's 1,200+ festivals and events, enjoy the international culinary scene, or explore natural areas where you can camp, hike, fish, or even river tube. Plus, Canada's entertainment capital, Toronto, is just a bus or train ride away.

## GO YOUR OWN WAY

Use your student card to ride local buses and light rail transit for easy access to adventure in all three of the region's cities – Waterloo, Kitchener, and Cambridge. You can also get around by bike share, car share, shuttle service, and more. Need to see family, visit friends, or catch a flight at Toronto's Pearson International Airport? The Greater Toronto Area (GTA) and surrounding cities are about 115 km away by bus or train.

## IMMERSE YOURSELF IN STARTUP CULTURE

Whether you want to be an entrepreneur or land an opportunity in a vibrant job market, living in one of the world's top tech hubs gives you a leg up. Everything you need to kickstart a venture or brush elbows with up-and-coming founders is within a few minutes of campus.

### GET TO KNOW THE CITY

[uwaterloo.ca/future/city](http://uwaterloo.ca/future/city)



USA

CO-OP

# YOUR CAREER STARTS NOW

Waterloo's co-op program adds up to two years of paid professional work experience to your résumé. Be future-ready and prepared to step into your dream job when you graduate.





**NORTH AMERICA'S  
LARGEST**  
co-op program

**8,000+** co-op employers  
in more than  
70 countries

**\$288M** REPORTED  
EARNINGS  
by Waterloo co-op students in 2023-2024

## **FUTURE-READY STUDENTS**

Through co-op work terms each year, students land roles that help them round out their learning with future-ready skills. Hear from some current students about their experience in co-op.

### **GET HANDS-ON EXPERIENCE**

“Experience and exposure are two of the strongest advantages as a co-op student. I strongly believe that my experiences in co-op, in addition to exposure to the health-care industry, have made me a more competitive student.”

– *Tanveer, Health Sciences*

### **EXPLORE NEW OPPORTUNITIES**

“I’ve always tried to do my co-ops in different industries, places, and roles to give me a better perspective on jobs I might want to pursue once I graduate and widen my skill set.”

– *Yuwika, Computer Engineering*

### **GO BEYOND THE TEXTBOOK**

“Working on [a] big restoration project has given me a lot of insight into how that actually works. The incredible amount of time and effort that something like this takes is not something you get out of a textbook.”

– *Shelby, Environmental Sciences*

### **EMBRACE ADAPTABILITY**

“Every work term will look different, and you’ll have to adapt. I had work terms that I loved [and] I also had work terms that were hard. The life lesson is being able to take what happens in stride and have a positive attitude.”

– *Daynica, Honours Arts, Sociology major*

### **FIND YOUR FIT**

“I experienced working at four companies over the past two years. It’s been so valuable and has helped me figure out what I like and don’t like.”

– *Dhruvi, Science and Business*

CO-OP

# STACK YOUR RÉSUMÉ WITH REAL- WORLD SKILLS

With access to a large selection of quality jobs across industries, you'll test-drive exciting careers and build a world-class professional network.

## MORE WAYS TO BUILD EXPERIENCE

### 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

Learn the skills that will help you land jobs and quickly climb the corporate ladder in our free professional development courses.

### CENTRE FOR CAREER DEVELOPMENT

Explore and identify strengths, skills, and career journeys to help you build a rewarding future.

### EXCHANGE AND STUDY ABROAD

Satisfy your wanderlust and your degree requirements through 100+ exchange and study-abroad opportunities.

### COMMUNITY LEADERSHIP CERTIFICATE

Learn to build trusting relationships, foster collaboration, and become a curiosity-driven leader as you earn a Certificate in Leadership Development.



**\$9,600–\$22,500**

average student earnings per co-op work term in Canada

**77%**

of Waterloo co-op grads earn \$60,000+ two years after graduation, compared to 41 per cent of all Ontario grads (*Ontario University Graduate Survey, 2020 graduates*)

## 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.

### BEFORE EACH WORK TERM

- > Update your résumé
- > Apply to jobs
- > Interview with employers
- > Get support from co-op advisors

### ON THE JOB

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

## 4 MONTHS IN SCHOOL. 4 MONTHS OF WORK. REPEAT.

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

YEAR	TERM	EXAMPLE 1	EXAMPLE 2	EXAMPLE 3
1	Fall	Study	Study	Study
	Winter	Study	<b>Work</b>	Study
	Spring	Off	Study	<b>Work</b>
2	Fall	Study	<b>Work</b>	Study
	Winter	<b>Work</b>	Study	<b>Work</b>
	Spring	Study	<b>Work</b>	Study
3	Fall	<b>Work</b>	Study	<b>Work</b>
	Winter	Study	<b>Work</b>	Study
	Spring	<b>Work</b>	Study	<b>Work</b>
4	Fall	Study	<b>Work</b>	Study
	Winter	<b>Work</b>	Study	<b>Work</b>
	Spring	<b>Work</b>	<b>Work</b>	Study
5	Fall	Study	Study	<b>Work</b>
	Winter	Study	Study	Study

Fall term: September to December

Winter term: January to April

Spring term: May to August

## GO IN DEPTH WITH CO-OP

[uwaterloo.ca/future/co-op](http://uwaterloo.ca/future/co-op)

# UNLOCK YOUR INNER ENTREPRENEUR

Are you ready to explore, build, or grow your big idea? No matter what stage of the process you're in – from dreaming to doing – our world-renowned innovation ecosystem unlocks your entrepreneurial potential with more than 45 tailored programs for every skill level and interest.

## CREATOR-OWNED

intellectual property policy means your great ideas belong to you

## #1

in Canada for producing venture-capital-backed entrepreneurs  
*(PitchBook 2023)*

## HUNDREDS

of Waterloo alumni have made their mark by founding companies that include BlackBerry, Bluish, Four All Ice Cream, Hyivy Health, Instacart, Lunaria Solutions, Vidyard, Youth Climate Lab, and more



## JOIN 1,000+ VENTURES – AND COUNTING

Surrounded by game-changing ideas and people, it's easy to feel inspired at Waterloo. Here, at Canada's number-one university for founders (*Pitchbook 2023*), learning and entrepreneurship go hand in hand. With unlimited access to free resources, you have everything you need to take your venture to the next level: coaching, mentorship, funding, for-credit courses and programs, workshops, pitch competitions, creator spaces, high-end tools and equipment – and, most importantly, people who believe in your potential.

## SUPERCHARGE YOUR SUCCESS WITH RIGHT-FIT SUPPORT

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

- › **Velocity**, our flagship entrepreneurship ecosystem, helps you grow your venture at every stage and level of experience
- › **United College** supports Indigenous creators through the Flint Hub Indigenous incubator and social innovators through the GreenHouse social impact incubator
- › **Grebel Peace Incubator** helps you build a more just and peaceful world
- › **The Problem Lab** will guide you through your first steps if you're just getting started

## READY, SET, LAUNCH

[uwaterloo.ca/future/creator](https://uwaterloo.ca/future/creator)

# GRADUATE CAREER- READY

Warriors get there faster. With classroom learning, industry experience, and career support woven throughout your degree, you graduate impact-ready. Plus, you'll be in good company – with all-star alumni making waves in their industry, communities, and the world at large.

**7** former Waterloo students  
named on the Forbes  
"30 Under 30" list in 2024

**246,000+** alumni in 158 countries  
graduated since 1957



## LEARN ON

Once a Warrior, always a Warrior! Even after you graduate, our alumni resources are always here to help you explore your career options, upgrade your skills, and make connections through our global alumni network.

## CAN'T STOP, WON'T STOP

Hungry for more? If you're like nearly half of incoming Waterloo students, you plan to pursue more education after your undergrad degree. Keep a good thing going by considering one of our 180+ research and professional graduate programs.

[uwaterloo.ca/gspa/programs](http://uwaterloo.ca/gspa/programs)

## WHERE WILL YOU WIND UP?

As a Waterloo grad, you'll be joining more than 246,000 other alumni who have used their education to achieve great things. From health-care technology inventors to sustainability experts, our graduates make a difference where it's needed most.

## IMPACT-MAKING GRADS

Hear from some Waterloo alumni as they reflect on how their Waterloo experience helped build the skills they needed to be successful.

### GLOBAL EXPERIENCE

"Having a global mindset is so important in the business world, and that element can't be taught. You have to go out and acquire it. At Waterloo, there's no limit to the global experiences you can pursue."

– Jennie Lin (BAFM '23), Accounting and Financial Management, Investment Banking Analyst at Evercore

### TRANSFERABLE SKILLS

"Problem solving is the number-one skill I learned from Waterloo. If you're pursuing any Waterloo degree, you know how to solve problems. The projects are challenging and the skills and discipline necessary to complete them are transferable."

– Arda Öcal (BMath '05), Honours Mathematics, Host of SportsCentre and NHL on ESPN

### ENDLESS OPPORTUNITY

"There were so many classes at Waterloo that prepared me well for my career. The communication skills and foundation I gained at Waterloo were a huge advantage to me in law school and beyond. The beauty of a humanities degree is it leaves so many avenues open to you."

– Dan Micak (BA '06), Honours Arts, English, Rhetoric, and Professional Writing major, Chief Legal Officer and Corporate Secretary at Lightspeed Commerce

## YOUR CAREER STARTS HERE

[uwaterloo.ca/future/career-success](http://uwaterloo.ca/future/career-success)

**FIRST-YEAR YOU**



**DISCOVER  
WHERE YOU'RE  
MEANT TO BE**





**DISCOVER MORE FIRST-YEAR YOU STORIES**

[uwaterloo.ca/future/first-year](http://uwaterloo.ca/future/first-year)

## **WATERLOO EXPERIENCES**

### **ATTEND ORIENTATION**

“The atmosphere was supportive and vibrant, and I was able to forget the stress of being away from home. My friendships with the people I met in Orientation grew stronger over the months in university – I consider them my Waterloo family.”

– *Jahnvi, Honours Arts and Business,  
Psychology major, Co-op*

### **FEEL AT HOME IN CANADA**

“The first week I was in Canada, I was able to get a cell phone number and obtain my identification with relative ease. The University has many resources to make settling into Canada an easy process, and I was even able to open my first bank account on campus with the help of very supportive and friendly staff.”

– *Licheng, Planning, Co-op*

### **EXPLORE THE CITY**

“Waterloo has a lot of parks and open spaces to enjoy. A lot of places are within walking distance. This made getting from one place to another and sightseeing pretty simple and convenient.”

– *Shiyan, Mathematics, Co-op*

### **BUILD YOUR COMMUNITY**


“I joined a club for the first time in years – the Association of Caribbean Students! I wasn’t interested at first, but that club really made my first and second year at Waterloo. The events, the people ... the entire club became a whole family. We were truly iconic.”

– *Keidi, Life Sciences, Biology major, Co-op*

### **MEET UPPER-YEAR STUDENTS**

“One of the first people I met was an upper-year student who helped me through tough times in first year, giving me a broader perspective on my education and the decisions I made. I’m truly grateful for such a helpful and supportive community.”

– *Siddharth, Business Administration (Laurier) and  
Computer Science (Waterloo) Double Degree, Co-op*

A young man with short dark hair and a beard, wearing a red t-shirt, is climbing a yellow rock wall. He is looking towards the camera with a focused expression. The wall is covered in various colored climbing holds (pink, blue, green, purple). A large yellow graphic element, resembling a stylized house or a large 'V' shape, is overlaid on the image, framing the text.

# LIVE YOUR BEST WARRIOR LIFE

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

## VARSITY TEAMS

◆ co-ed

● women

■ men

Badminton ◆

Baseball ■

Basketball ■ ●

Cheerleading ◆

Cross Country ■ ●

Curling ■ ●

Fencing ■ ●

Field Hockey ●

Figure Skating ◆

Football ■

Golf ■ ●

Hockey ■ ●

Nordic Skiing ■ ●

Rowing ■ ●

Rugby ■ ●

Soccer ■ ●

Squash ■ ●

Swimming ■ ●

Tennis ■ ●

Track and Field ■ ●

Volleyball ■ ●

**FREE** entry to Waterloo Warriors regular-season home games with your WatCard

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

## YOUR VOICE ON CAMPUS

The Waterloo Undergraduate Student Association (WUSA) represents your concerns and promotes student life on campus. Get involved in clubs, student-run services, and résumé-building opportunities, including student government, jobs, and volunteering.

## JOIN A CLUB

Whatever your interest or hobby, there's a club for that. From breakdancing to board games to Buddhism, our 200+ clubs, societies, and associations help you make friends, fuel your passions, and learn new skills. You can even start your own!

## STAY ACTIVE

Keep your body and mind healthy while staying connected to campus life through our fitness facilities, athletics clubs, intramural sports, varsity teams, and drop-in classes.

## NEW FRIENDS, LIFELONG MEMORIES

Your student experience isn't complete without the lasting memories and bonds you'll form during annual Warrior events and activities – from Orientation and Welcome Week to trivia nights, faculty events, theatre productions, and more.

## PICTURE YOURSELF HERE

[uwaterloo.ca/future/life](http://uwaterloo.ca/future/life)

RESIDENCE LIFE

# LOVE WHERE YOU LIVE

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

**100%** residence guarantee for all new students

**24/7** supports available, such as front desk assistants and residence life staff

Whether you're hitting the books, hanging out with friends, or enjoying some quiet time, there's dedicated space for that – including areas for studying, fitness, prayer, music, and more.

SINGLE ROOM



DOUBLE ROOM



## SAMPLE ROOM FLOOR PLANS\*

SUITE-STYLE ROOMS



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

## MAKE IT YOUR OWN

Your home away from home should suit your budget and personality. Choose from traditional or suite-style residences through Campus Housing or the University College residences. No matter where you live on campus, you'll find personal and academic support, new friends, and exciting experiences. Find estimated living expenses on page 55.

## UNBEATABLE EATS

Whether you want a hearty breakfast or a quick snack, there's no shortage of food options on campus! Our meal plans make it quick and affordable to enjoy fresh, local, and Fairtrade food and drinks, with halal, vegan, or made-to-order options if you have allergies or dietary restrictions.

## BIRDS OF A FEATHER NEST TOGETHER

Want to live and learn with students from your program? Apply to a Living Learning Community (LLC) to be grouped with students in your program, peers who share your passion, or fellow athletes.

## GET TO KNOW YOUR DON

Dons are fun, caring upper-year students who live in the residences and help you feel supported and included. They organize events, monitor safety, and offer assistance around the clock.

## EXPLORE ON-CAMPUS LIVING

[uwaterloo.ca/future/residence](http://uwaterloo.ca/future/residence)

## START STRONG

Studying in a different country takes hard work and ambition, but you don't have to do it alone. Find support from the start through International Orientation, English language learning, cultural student groups, and more.

# HERE FOR YOU FROM DAY ONE

## ARE YOUR ENGLISH LANGUAGE SCORES LOW?

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



[uwaterloo.ca/future/base](https://uwaterloo.ca/future/base)

## PRACTISE WITH PEERS

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

- › English Conversation Cafés
- › Conversation Partner Program



## ACCESS HEALTH AND DENTAL CARE

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

## FIND COMFORT IN COMMUNITY

Ease your transition to Waterloo with the support of the International Peer Community. Build new friendships and learn about Canadian culture through activities on and off campus. With more than 30 cultural clubs you can join, it's also easy to connect with students from home.

**110+** countries are represented by our undergraduate students

**1 IN 5** undergraduate students are international visa students

**6** Regulated Canadian Immigration Consultants offer immigration advice on campus

## START STRONG AT WATERLOO

[uwaterloo.ca/future/international-support](http://uwaterloo.ca/future/international-support)

CARE AND SUPPORT

# FIND SUPPORT AT EVERY STEP

## HOME TO THE GLOW CENTRE

Canada's oldest continuously run 2SLGBTQ+ student organization, founded in 1971

**120+** Campus Wellness staff  
members to support you



## STRENGTH IN DIVERSITY

### INTERNATIONAL AND CANADIAN STUDENT NETWORK\*

has the goal of making all students feel at home. This network connects local, international, and exchange students through weekly events.

### GLOW CENTRE\*

supports all sexual orientations and gender identities by offering confidential peer support, discussion groups, social events, and resources.

### RACIAL ADVOCACY FOR INCLUSION, SOLIDARITY, AND EQUITY (RAISE)\*

lifts students up by addressing the impacts of racism and xenophobia in our community.

### WATERLOO CHAPLAINS

represent different faith traditions, and can provide you with support as you explore spiritual questions.

## WELLNESS ON CAMPUS

### HEALTH SERVICES\*\*

has an on-campus Student Medical Clinic that offers a range of services, from providing prescriptions and immunizations to addressing your physical and sexual health concerns.

### COUNSELLING SERVICES\*\*

supports your mental, emotional, and spiritual health through one-on-one counselling, group therapy, and skills seminars.

### MATES\*

offers one-to-one peer support and workshops to help you through academic, personal, and mental health challenges.

### EMPOWER ME

is a confidential mental health and wellness service available to you 24/7 through phone, video call, or in person.

### SPECIAL CONSTABLE SERVICE

patrols the campus 24/7 to maintain a safe and secure environment for all.

## STUDENT SUPPORT

### STUDENT SUCCESS OFFICE (SSO)

provides academic support programs, leadership workshops, peer coaching, and more.

### ACCESSABILITY SERVICES

designs and facilitates academic accommodation plans for students experiencing permanent, temporary, or suspected disabilities, conditions, or impacts from trauma.

### OFFICE OF EQUITY, DIVERSITY, INCLUSION AND ANTI-RACISM

advances equity across campus through policies, practices, and programs.

### SEXUAL VIOLENCE PREVENTION AND RESPONSE OFFICE (SVPRO)

provides support to anyone who has experienced or been impacted by sexual violence.

### PRESIDENT'S ANTI-RACISM TASKFORCE (PART)

works to amplify the voices of Black, First Nations, Inuit, Métis, and other Peoples of Colour and address racism at Waterloo.

### SUSTAINABILITY OFFICE

helps build a more sustainable campus through academics, operations, and engagement programming.

### INTERNATIONAL EXPERIENCE CENTRE (IEC)

provides free immigration consulting, community events, and exchange and study-abroad opportunities.

IT'S OKAY TO ASK FOR HELP

[uwaterloo.ca/future/support](http://uwaterloo.ca/future/support)

**HERE 24/7**

provides addiction, mental health, and crisis services in person and over the phone

OUR CAMPUS

# PICTURE YOUR LIFE AT WATERLOO

1



3



2



4



5





6



7



8



9

**DISCOVER MORE  
BY FOLLOWING US  
ON INSTAGRAM**

 [UofWaterlooFuture](https://www.instagram.com/UofWaterlooFuture)



10

- 1 Waterloo Warriors celebrating
- 2 Convocation
- 3 Waterloo sign in the Arts Quad
- 4 Environment 3 living wall
- 5 Dana Porter Library
- 6 Peter Russell Rock Garden
- 7 William M. Tatham Centre for Co-operative and Experiential Education
- 8 Engineering 5
- 9 Warriors Women's Hockey
- 10 Waterloo Warriors in a huddle
- 11 Ceremonial Fire Grounds



11

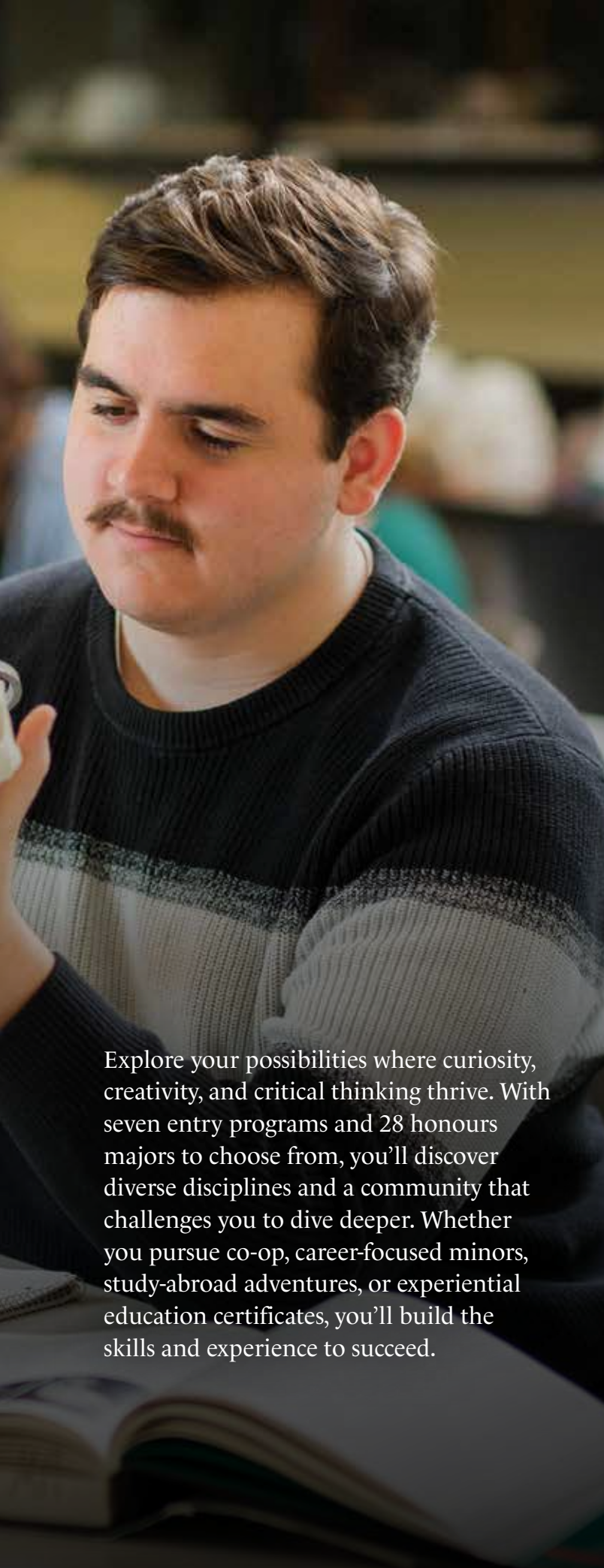
## WATERLOO'S FACULTIES

“I’m very much a hands-on learner. Having access to the University’s skeletal collection in the Osteology Lab means I’m able to handle the bones, see the proper techniques, and get immediate feedback.”

WILL (HE/HIM), HONOURS ARTS,  
ANTHROPOLOGY MAJOR

On top of developing his skills and knowledge in labs, Will says small class sizes make it easier to interact with and get support from professors, who are always available to answer questions and connect him to experiential learning opportunities.

# TRULY HANDS-ON LEARNING



Explore your possibilities where curiosity, creativity, and critical thinking thrive. With seven entry programs and 28 honours majors to choose from, you'll discover diverse disciplines and a community that challenges you to dive deeper. Whether you pursue co-op, career-focused minors, study-abroad adventures, or experiential education certificates, you'll build the skills and experience to succeed.

## FACULTY OF ARTS

### ENTRY PROGRAMS

Learn more about Arts entry programs, majors, and optional specializations on pages 41-42.

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

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

### MAJORS

Anthropology | Classical Studies | Classics | Communication Arts and Design Practice | Communication Studies | Economics | English: Creative and Professional Writing | English: Literature | English: Literature and Rhetoric | English: Rhetoric, Media, and Professional Communication | Fine Arts: Studio Practice | Fine Arts: Visual Culture | French | Gender and Social Justice | 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 | Theatre and Performance

### PROFESSIONAL DEGREE

- › Social Work (Renison University College)

Apply after completing your undergraduate degree.

**40%**

of your time is spent studying a chosen major in Honours Arts and Honours Arts and Business

**75+**

partner universities offer international study exchanges to Arts students

[uwaterloo.ca/future/arts](http://uwaterloo.ca/future/arts)

## WATERLOO'S FACULTIES

“There’s so much support at Waterloo to help students achieve their potential. Velocity helped me take my non-profit robotics education company to the next level.”

JONATHAN (HE/HIM), MECHATRONICS  
ENGINEERING, CO-OP

As part of his venture, Jonathan organized a four-day international robotics tournament called Mecha Mayhem, Canada’s first-ever VEX Robotics Signature Event. With help from Velocity, he found panel speakers and sponsors, and even flew five friends to Calgary to volunteer at the event.

# BUILD YOUR BIG DREAMS

## ENTRY PROGRAMS

Learn more about Engineering entry programs and optional specializations on pages 42-43.

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

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.

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?

**TOP 40** in the world for engineering (QS World University Subject Rankings 2024)

**LARGEST** student design centre in North America

[uwaterloo.ca/future/engineering](https://uwaterloo.ca/future/engineering)

## WATERLOO'S FACULTIES

“Waterloo has opened my eyes to the endless possibilities for jobs after I graduate. I’ve been able to explore different fields within the environment sector and narrow down my career path.”

PUTRI (SHE/HER), ENVIRONMENT, RESOURCES AND SUSTAINABILITY, CO-OP

Putri, who moved from Indonesia to Canada, says she originally didn't know what she wanted to do after graduation. Thanks to the experiences she's had working for different organizations during several co-op terms, she's been able to test out careers and find her passion.

# OUR PLANET NEEDS YOU





## FACULTY OF ENVIRONMENT

Join the global movement advocating for a greener, more sustainable future. 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 43-44.

- > Climate and Environmental Change
- > Environment and Business
- > Environment, Resources and Sustainability
- > Geography and Aviation
- > Geography and Environmental Management
- > Geomatics
- > Knowledge Integration
- > Planning
- > Sustainability and Financial Management

**TOP 5** in Canada for geography  
(QS World University Subject  
Rankings 2024)

**TOP 10** in Canada for  
sustainability  
(QS World University  
Rankings 2025)

[uwaterloo.ca/future/environment](https://uwaterloo.ca/future/environment)

## WATERLOO'S FACULTIES

“Waterloo offers very unique hands-on learning opportunities. Experiences like studying anatomy with human cadavers or exercise physiology with real participants have been crucial to my understanding of course material.”

SARAH (SHE/HER), KINESIOLOGY, CO-OP

As an international student from Barbados, Sarah says immersive experiences at Waterloo, such as delivering front-line patient care during a co-op term, helped her form connections and build real-world skills – on top of making everything “more interesting and fun.”

# HELP PEOPLE THRIVE



## FACULTY OF HEALTH

You'll be part of a tight-knit community of students and professors who are dedicated to preventing disease, healing injuries, and optimizing quality of life. Develop relevant skills and knowledge that prepare you to pursue a variety of health-related career paths, so you can make a difference that improves lives.

### ENTRY PROGRAMS AND MAJORS

Learn more about Health entry programs, majors, and optional specializations on pages 44-45.

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

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

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

**TOP 10** in Canada for anatomy and physiology (*QS World University Subject Rankings 2024*)

**96%** of Health grads are employed or pursuing further education within a year of graduating (*graduation statistics survey, 2016-2022 graduates*)

[uwaterloo.ca/future/health](https://uwaterloo.ca/future/health)

## WATERLOO'S FACULTIES

“I’ve gained a well-rounded skill set and I’ve been exposed to a variety of tasks that are highly relevant in today’s job market. I feel prepared for a successful future.”

PRABHSHARAN (HE/HIM), MATHEMATICS, CO-OP

Prabhsharan, who came to Waterloo from India, says his experience has been transformative. Not only has he learned a lot in the classroom and on co-op terms, but he’s also gained “valuable insights into the importance of hard work and adaptability.”

# MULTIPLY YOUR POSSIBILITIES



With more than 500 courses in 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; refine your skills through co-op, minors, and specializations; and graduate with infinite career prospects.

# FACULTY OF MATHEMATICS

## ENTRY PROGRAMS AND MAJORS

Learn more about Mathematics entry programs, majors, and optional specializations on pages 45-46.

- › 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
- › Software Engineering

\*You apply to **Mathematics** for access to these majors, which begin at the end of first year or later.

**TOP 25**

in the world for computer science (QS World University Subject Rankings 2024)

**#2**

in Canada for computer science and #3 for mathematics (QS World University Subject Rankings 2024)

[uwaterloo.ca/future/mathematics](https://uwaterloo.ca/future/mathematics)

## WATERLOO'S FACULTIES

“Learning from an engaging professor and getting hands-on experience dissecting sharks, trout, and pigs in my vertebrate zoology course opened my mind to a new world and passion.”

**JULIA (SHE/HER), HONOURS SCIENCE**

Julia loved the subject matter so much that she and a friend decided to create the UW Zoology Club to bring zoology enthusiasts and animal lovers together. Fast-forward one year and the club has 160 members, with Julia serving as co-president.



# CREATE SOLUTIONS BEYOND LABS



Discover everything from atoms to the vast expanses of space. In our most research-centric faculty, you'll participate in hands-on labs, research projects, and co-op terms that prepare you to think critically, experiment confidently, engage intelligently, and build a successful career.

## ENTRY PROGRAMS AND MAJORS

Learn more about Science entry programs, majors, and optional specializations on pages 46-47.

- > Biotechnology/Chartered Professional Accountancy
- > Environmental Sciences
- > Honours Science
- > Life Sciences\*
  - Biochemistry | Biology | Biomedical Sciences | Psychology
- > Physical Sciences\*
  - Biological and Medical Physics | Chemistry | Earth Sciences | Materials and Nanosciences | Mathematical Physics | Medicinal Chemistry | Physics | Physics and Astronomy
- > Science and Aviation
- > Science and Business

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

## 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.

**TOP 5**

in Canada for materials sciences, environmental sciences, and physics and astronomy (*QS World University Subject Rankings 2024*)

**145+**

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

[uwaterloo.ca/future/science](https://uwaterloo.ca/future/science)

“Waterloo has really prepared me to enter the workforce once I graduate. I’ve gained a lot of confidence and I’ve been pushed outside my comfort zone.”

JAIDEN (SHE/HER), SUSTAINABILITY AND FINANCIAL MANAGEMENT, CO-OP

From working at Deloitte, one of the four national accounting firms, to speaking on live television about her program, Jaiden says Waterloo has provided her with “so many amazing opportunities that [she] didn’t think would be possible, especially after only one year of study.”

# UNLOCK YOUR POTENTIAL





Whether you dream about being an entrepreneur, working for a global brand, or helping a startup grow, you'll meet your match here. Find passionate peers, world-class teachers, endless co-op opportunities, and an entrepreneurial culture, all at Waterloo.

## DRIVEN BY EMPLOYER NEEDS

Created in collaboration with employers, our programs give you an edge in the marketplace, expand your portfolio, and let you explore passions that will help you define your industry niche. Find yourself working in paid co-op positions with top business leaders, while learning from a community of mentors and other self-starters.

## BUSINESS PROGRAMS

Learn more about each program on pages 41-47.

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

### TOP 10 IN CANADA

for accounting and finance (*QS World University Subject Rankings 2024*)

### TOP 10 IN CANADA

for business and economics (*Times Higher Education World University Subject Rankings 2024*)

[uwaterloo.ca/future/business](https://uwaterloo.ca/future/business)

# PROGRAM DETAILS

## THE FINER POINTS

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

[uwaterloo.ca/future/programs](http://uwaterloo.ca/future/programs)

Interested in more than one program? Learn about adding minors to your degree:

[uwaterloo.ca/future/minors](http://uwaterloo.ca/future/minors)

### LEGEND

\* Only offered at the University of Waterloo

E = Entry-level program: apply directly through the Ontario Universities' Application Centre (OUAC)

M = Major: subject of major interest: apply through an entry-level program

● Sample courses

▲ Specializations

■ Career possibilities

### FACULTY OF ARTS / PAGES 41-42

- > Accounting and Financial Management
- > Anthropology
- > Classical Studies
- > Communication Studies
- > Computing and Financial Management
- > Economics
- > English
- > Fine Arts
- > French
- > Gender and Social Justice
- > Global Business and Digital Arts
- > History
- > Honours Arts
- > Honours Arts and Business
- > Legal Studies
- > Liberal Studies
- > Medieval Studies
- > Music
- > Peace and Conflict Studies
- > Philosophy
- > Political Science
- > Psychology
- > Religious Studies
- > Sexuality, Marriage, and Family Studies
- > Social Development Studies
- > Social Work
- > Sociology
- > Sustainability and Financial Management
- > Theatre and Performance

### FACULTY OF ENGINEERING / PAGES 42-43

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

### FACULTY OF ENVIRONMENT / PAGES 43-44

- > Climate and Environmental Change
- > Environment and Business
- > Environment, Resources and Sustainability
- > Geography and Aviation
- > Geography and Environmental Management
- > Geomatics
- > Knowledge Integration
- > Planning
- > Sustainability and Financial Management

### FACULTY OF HEALTH / PAGES 44-45

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

### FACULTY OF MATHEMATICS / PAGES 45-46

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

### FACULTY OF SCIENCE / PAGES 46-47

- > Biochemistry
- > Biological and Medical Physics
- > Biology
- > Biomedical Sciences
- > Biotechnology/Chartered Professional Accountancy
- > Chemistry
- > Earth Sciences
- > Environmental Sciences
- > Honours Science
- > Life Sciences
- > Materials and Nanosciences
- > Mathematical Physics
- > Medicinal Chemistry
- > Optometry
- > Pharmacy
- > Physical Sciences
- > Physics
- > Physics and Astronomy
- > Psychology
- > Science and Aviation
- > Science and Business

## FACULTY OF ARTS

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

Shape the future of business and communities by becoming a professional with expertise in business, accounting, and financial management. Lead change by applying and extending your learning with co-op, career specializations, and extra- and co-curriculars while working toward a Chartered Professional Accountant (CPA) and/or Chartered Financial Analyst (CFA) designation.

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

▲ Professional Accountant; Entrepreneurial Mindset; Financial Leadership; Financial Markets; Business Analytics

■ Accountant, auditor, investment banker

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

Anthropology is like history ... but messier. Set your focus on what you're most curious about: archaeological, biological, or socio-cultural anthropology. Whether you're interested in examining relics, learning how evolution produces long-distance runners, or studying decolonization, you'll take lessons from the past and shape the future.

● Skeletal Biology and Forensics; Anthropology of Digital Media; Hunter-Gatherer Archaeology

■ Archaeologist, curator of natural property, heritage planner

### 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).

● Classical Mythology; The Ancient Near East and Egypt; Astrology and Magic

■ Teacher, reference librarian, technical writer

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

Clear communication is about more than the gift of gab. Learn how people communicate effectively whether through speaking, writing, or navigating group dynamics (hello, body language and listening skills). More of a visual or creative communicator? The Communication Arts and Design Practice major focuses on creative principles, allowing you to tell a story digitally.

● Designing Digital Presentations; Interpersonal Communication; Media, Images, and Communication

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

### \* COMPUTING AND FINANCIAL MANAGEMENT

See Faculty of Mathematics section (page 45) for details.

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

How does the world really work? Economics is about more than data and money. You'll explore the complexities of everyday lives and interpret today's news. Why do women earn less than men? What shapes public policy? Are the Olympics worth it for the host city? Cover micro- and macro-economics while studying human behaviour and worldwide financial trends.

● Economics of Sport; Business Cycles; International Finance

▲ Econometrics; Finance; Public Policy

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

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

Rather be reading? If the library is your happy place, you're probably a future English graduate. Explore the written word, whether as literature, professional writing, or digital media, in tight-knit classes. Take advantage of career-boosting co-op and choose one of four majors after first year: Creative and Professional Writing; Literature; Literature and Rhetoric; or Rhetoric, Media, and Professional Communication.

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

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

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

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

Yes, you can take Fine Arts at Waterloo. (We're a best-kept secret.) Choose from two paths: Studio Practice to make art or Visual Culture for history and theory. As an artist, you'll express yourself using ceramics, painting, print media, photography, and the newest technologies. Visual Culture combines courses from Architecture, Anthropology, English, and 20 other departments.

● World Cinema and Visual Culture; Photography; Expressive Drawing

▲ Digital Art; Teaching Preparation

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

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

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

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

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

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

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

Be an advocate for equity, justice, and positive change. Explore multi-layered marginalization and understand cultural patterns of oppression based on attributes such as gender, sexual orientation, race, and disability. Learn how you can contribute to building just and inclusive communities.

● Gender and Social Justice in Popular Culture; The Waves of Feminist Thought; Global Queer Cinema

■ Counselling co-ordinator, social worker

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

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

● Marketing in a Digital World; Introduction to User Experience Design; Working in Teams and Project Management

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

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

"Don't make me repeat myself." – History. Forget dusty dates and facts. Whether you focus on Canadian, American, European, or international history, History provides tools to analyze the past and create stronger communities today. Learn vital skills: critical thinking, analysis, and effective communication. The world is changing rapidly so it's critical to know how we got here.

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

▲ Digital and Public History; Global Interactions; International Relations; Revolution, War, and Upheaval

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

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

You're all about "try before you buy." That's smart. Use your first two terms to test the waters before choosing your major. Sample courses from the humanities, social sciences, fine and performing arts, and languages and cultures. Add co-op as an in-person student and get up to 20 months of paid experience. Honours Arts Online is available for select majors.

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

You want choice – and then some. You'll get that with Honours Arts and Business. Combine the employable skills of business studies with one of 28 Arts majors to launch the career of a lifetime. Opt for co-op and earn nearly two years of paid work experience too. Also offered at St. Jerome's, a tight-knit academic community on Waterloo's campus.

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

Discuss. Argue. Debate. Repeat. Explore the law and court system from the perspectives of political science, history, sociology, philosophy, and peace and conflict studies. While you can take this program to lay the foundation for law school, it also opens doors to careers in government, politics, business, and law enforcement too. Small classes teach how law shapes our daily lives.

● Criminal Profiling; Organized Crime; Legal Writing

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

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

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; Introduction to Legal Studies

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

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

Immerse yourself in the Middle Ages – minus the dysentery – in Canada's longest-standing medieval studies program. By concentrating on this crucial era in Western civilization, you'll gain insights into European politics, modern gender norms, the connections between Islam and Christianity, and more. (You can even study abroad in a castle!)

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

■ Professional writer, librarian, historical site manager, teacher

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

Explore Beethoven to Bieber, solos to software. Learn about the importance of music in today's world through theory, composition, performance, and history. Combine your passion for music with other interests by taking courses that address the vital intersection of music and technology, film, global culture, and psychology.

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

▲ Church Music and Worship; Music in a Global Context; Music and Peace

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

**PEACE AND CONFLICT STUDIES / FACULTY OF ARTS**

(M, Bachelor of Arts) Co-op available

"Peace cannot be kept by force; it can only be achieved by understanding." Develop your understanding of conflict, peace, and justice through this ground-breaking program. Combine theory and practice to explore violence, marginalization, and oppression. You'll learn to transform conflict into positive change while gaining experience through global co-ops or internships.

● Peace is Everybody's Business; Conflict Resolution; Fair Trade

▲ Restorative Justice

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

**PHILOSOPHY / FACULTY OF ARTS** (M, Bachelor of Arts)

Co-op available

Confront some of life's biggest questions. Study ancient texts and modern thinking on topics ranging from the nature of the human mind to emerging issues in science and technology. Learn to analyze other people's arguments and improve your own. You'll develop the critical-thinking skills valued in public policy, industry, and beyond.

● Ethics; Being and Existence; Introduction to Formal Logic; Intelligence in Machines, Humans, and Other Animals

■ Lawyer, public policy analyst, ethicist, corporate archivist

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

Vote yes for Political Science. You'll analyze international relations and foreign policy and explore how national and local politics change lives in Canada. With your degree, you'll gain critical-thinking and problem-solving skills to understand news-making policies and social challenges, such as immigration, housing, and education. Co-op gives real-world experience too.

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

▲ International Relations

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

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

Become a mind-reader with a difference. In this internationally renowned program, you'll explore how people think, make decisions, and form emotions. Examine human behaviour through neuroscience, cognition, and clinical, developmental, industrial/organizational, and social psychology. This degree paves the way for a range of careers.

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

■ Mental health worker, research and development manager, human resources manager

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

Did you know 85 per cent of people follow a religious tradition? Religion has an impact on everything from local politics to war. Study faith-based beliefs to understand the world's complexities. Your degree builds critical thinking skills, cultural awareness, and diversity appreciation. Group dynamics skills and global insight make you career-ready.

● Monsters and Magic in Japanese Popular Culture; Spiritual Journeys; Anthropology of Religion

■ Clinical therapist, interfaith chaplain, international development agency director

**\* SEXUALITY, MARRIAGE, AND FAMILY STUDIES /**

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

Get ready to talk relationships. The only one of its kind in Canada, this program goes far beyond basic anatomical knowledge and sexual health. Drawing upon critical, anti-oppressive, and social justice approaches, you'll study the latest research and theory in sexuality, families, and relationships and how they apply to everyday life.

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

▲ Counselling; Human Services Practicum

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

**SOCIAL DEVELOPMENT STUDIES / FACULTY OF ARTS**

(E or M, Bachelor of Arts) Co-op available through Honours Arts or Honours Arts and Business

Thinking of working in a helping profession? Make a difference with a degree in Social Development Studies (SDS). Explore human and social development through psychology, sociology, and social work courses. Find your focus with specializations and practical or research experience. Study where you want, how you want – SDS can be done entirely online or on campus.

● Social Work with Families; Disability and Society; Decolonization and Social Action; Educational Equity in Canada

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

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

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

Advocate. Support. Empower. That's what social workers do. As health and social inequities grow, this profession needs you more than ever. Balancing compassion with in-class learning and an in-field practicum, you'll gain life-changing skills. Note: you must already have a Bachelor of Arts or equivalent. For prerequisite courses, enrol in Social Development Studies first.

● Interviewing and Assessment; Mental Health Landscapes, Concepts, and Practice Approaches; Social Work with Older Adults

■ Mental health advocate, child welfare worker, policy developer

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

People are complicated. Study Sociology so they make sense. If you're curious about how society works, Sociology helps you understand how social forces shape the modern world. You'll study human activity and interaction while learning to think and write clearly about complex issues. Human-centred skills are needed in government, health, business, law, and non-profits.

● Terrorism; Juvenile Delinquency; Media and Crime

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

**\* SUSTAINABILITY AND FINANCIAL MANAGEMENT**

See the Faculty of Environment section (page 44) for details.

**THEATRE AND PERFORMANCE / FACULTY OF ARTS**

(M, Bachelor of Arts) Co-op available

All the world's a stage. Find your place on it 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, and then hone your skills in student-led productions each term. You'll graduate with a rich portfolio!

● Stage Management; Approaches to Directing; Collaborative Creation

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

**FACULTY OF ENGINEERING****ARCHITECTURAL ENGINEERING / FACULTY OF ENGINEERING**

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

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

● Enclosure Design Studio; Structure and Properties of Materials; Energy and the Environment

▲ Building Structures; Building Systems

■ Building design consultant, project manager, construction manager, building operations manager

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

Create the framework 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, technology, the environment, and society. In fourth year, study at our studio in Rome. Questions? Email [archinfo@uwaterloo.ca](mailto:archinfo@uwaterloo.ca)

● Design Studio; Introduction to Cultural History; Visual and Digital Media; Environmental Building Design; Building Construction; Digital Fabrication

■ Architect, project manager, urban designer, industrial designer, sustainable development and heritage professional

**BIOMEDICAL ENGINEERING / FACULTY OF ENGINEERING**

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

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

- Introduction to Biomedical Design; Engineering Biology; Physiological Systems Modelling
- ▲ Biomaterials and Tissues; Medical Artificial Intelligence; Medical Devices; Neural Engineering; Sports Engineering
- Clinical app developer, imaging technology researcher, medical device designer

**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, health care, food production, and more.

- Chemical Reaction Engineering; Food Process Engineering; Air Pollution Control
- ▲ Energy and Environmental Systems and Processes; Materials and Manufacturing Processes; Chemical Process Modelling; Optimization and Control
- Pharmaceutical design and production, microelectronics manufacturing, process systems engineering

**CIVIL ENGINEERING / FACULTY OF ENGINEERING**

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

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

- Structure and Properties of Materials; Engineering and Sustainable Development; Civil Systems and Project Management
- ▲ Building Science; Geotechnical; Structural; Transportation; Water Resources
- Design and construction of roadways, buildings, urban transportation, and water systems

**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 circuit-level high-speed processors to artificial intelligence. Plus, gain valuable work experience in Waterloo region: a high-tech hub home to more than 1,500 technology companies.

- Systems Programming and Concurrency; Computer Networks; Computational Intelligence
- ▲ Communications and Signal Processing; Quantum Engineering
- Full stack software development, embedded platform engineering, data analytics

**ELECTRICAL ENGINEERING / FACULTY OF ENGINEERING**

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

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

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

**ENVIRONMENTAL ENGINEERING / FACULTY OF ENGINEERING**

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

Ready to help solve the world's most pressing ecological challenges? Environmental engineers get it done. You'll merge your strengths in math and physics with an interest in biology, chemistry, geology, and geography. Then put them to use with the latest science and technology. Lead the way to a more sustainable future with this in-demand field. Opportunity awaits.

- Air Quality Engineering; Design of Urban Water Systems; Environmental Modelling
- ▲ Energy; Hydrology; Pollution Treatment and Control
- Sustainability assessment of civil engineering projects, process design for water treatment, protection and revitalization of ecosystems

**GEOLOGICAL ENGINEERING / FACULTY OF ENGINEERING**

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

Put your future on solid ground – and help the world do the same. You'll combine earth sciences with civil engineering to design smart foundations, mitigate and reduce losses during natural disasters, and contribute to sustainable resource development globally. Meanwhile, with a ton of field courses and labs, you'll spend more time outside the classroom than in any other engineering program.

- Geotechnical Engineering; Rock Mechanics; Structural Geology
- ▲ Geology; Hydrogeology; Soil, Rock and Structures
- Design of terrain sensors, hazard assessment of landslides and earthquakes, surface and subsurface infrastructure

**MANAGEMENT ENGINEERING / FACULTY OF ENGINEERING**

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

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

- Advanced Machine Learning; Databases and Software Design; Fundamentals of Optimization
- Business analyst, product manager, consultant, software developer, data scientist

**MECHANICAL ENGINEERING / FACULTY OF ENGINEERING**

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

Put your career in gear. This program gives you a broad foundation in all aspects of mechanical design – and lots of opportunities to get your hands dirty in our well-equipped labs. You'll study topics like manufacturing, material processing, green energy, and safety so you'll graduate with the knowledge to design everything from valves to vehicles.

- Mechanical Design; Thermodynamics; Fluid Mechanics
- ▲ Welding and Joining
- Advanced manufacturing, aerospace, automotive research and development

**MECHATRONICS ENGINEERING / FACULTY OF ENGINEERING**

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

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

- Sensors and Instrumentation; Microprocessors and Digital Logic; Structure and Properties of Materials
- Manufacturing and programming of robotic devices, design of biomedical instruments, design and creation of wearable technology

**NANOTECHNOLOGY ENGINEERING / FACULTY OF ENGINEERING**

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

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

- Nanomedicine and Nanobiotechnology; Quantum Mechanics; Nano-Electronics
- ▲ Nanobiosystems; Nanoelectronics; Nanofabrication; Nanomaterials
- Nanomedicine, nano-engineered materials, semiconductor manufacturing, drug and vaccine development, advanced energy storage devices

**SOFTWARE ENGINEERING / FACULTY OF ENGINEERING AND FACULTY OF MATHEMATICS**

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

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

- Programming Principles; Logic and Computation; Machine Learning; Operating Systems
- ▲ Human-Computer Interaction; Artificial Intelligence; Business; Computational Fine Arts
- Design of operating systems, development of security systems, analysis and maintenance of web applications

**SYSTEMS DESIGN ENGINEERING / FACULTY OF ENGINEERING**

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

Take a creative, interdisciplinary approach to solving engineering problems. In this flexible program, you'll apply a big-picture perspective to examining how human, technological, and environmental systems interact. Plenty of hands-on learning will give you the in-demand design skills to open doors to countless engineering careers.

- Design, Systems, and Society; Engineering Prototyping; Human Factors in Design; Systems Models
- ▲ Human Factors and Interfaces; Intelligent and Automated Systems; Physical and Mechatronics Systems; Societal and Environmental Systems
- Complex systems analyst, physical and digital device designer, data scientist, socio-environmental simulation modeller

**FACULTY OF ENVIRONMENT**

**CLIMATE AND ENVIRONMENTAL CHANGE / FACULTY OF ENVIRONMENT**

(E, Bachelor of Science) Co-op available

Want to redefine tomorrow and make the world a safer place to live today? Dig into scientific solutions that help people adapt to the impacts of climate breakdown, from floods to forest fires. With this BSc program, you'll integrate physics, chemistry, biology, and geography and delve deeply into topics like atmospheric science, climate modelling, and even policy. Scientists save lives. Pack your cape.

- Physical Climatology; Earth's Future Climates; Ice Sheets and Glaciers
- ▲ Aviation; Economy and Society; Geomatics
- Climate modeller, climate risk scientist, policy analyst, carbon market analyst, renewable energy specialist, environmental consultant

**\* ENVIRONMENT AND BUSINESS / FACULTY OF ENVIRONMENT** (E, Bachelor of Environmental Studies) Co-op only  
Single-use packaging? Buh-bye. Take a constructive approach to pressing challenges such as climate change, biodiversity conservation, and social justice by exploring how businesses become more sustainable – no greenwashing required. This program, which includes a team capstone project that has you working with a real business, does more than bolt environment and business together. It's a whole new way of thinking about our systems of commerce, manufacturing, and trade.

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

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

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

The solutions to environmental crises must be multifaceted – so this flexible program is too. Learn from a community of professors, diverse co-op employers, and classmates who are committed to making positive change. Study natural and social sciences while customizing your program to focus on what matters to you: food, biodiversity, water, climate, and more. You want to protect the living world. Now lead the way.

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

■ Terrestrial and wetland ecologist, sustainability policy analyst, parks and protected area manager

**\* GEOGRAPHY AND AVIATION / FACULTY OF ENVIRONMENT** (E, Bachelor of Environmental Studies) Regular only

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

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

■ Pilot, first officer, flight training instructor

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

Restoring peatlands. Connecting climate change to shifts in tourism. Driving green transportation forward and investigating sea change. Go beyond headlines and help create solutions with this specialized program. You'll dive deep into climate change, earth systems science, human geography, and geomatics. You'll take plenty of field trips too, from the Arctic to Nepal, Germany, and Indonesia. The world needs you.

● Global Environmental Systems; Environment and Development in a Global Perspective; Earth's Future Climates

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

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

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

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

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

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

■ Data analyst, GIS operator, remote sensing specialist

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

You have many interests, so choose a program flexible enough to pursue them all. Select courses across the arts, sciences, and beyond, and then integrate that knowledge to raise novel questions and develop innovative solutions. As part of our tight-knit community, you'll gain hands-on skills to solve real-world problems, communicate effectively, and collaborate widely. Get ready to succeed in any industry you choose.

● Collaboration, Design Thinking, and Problem Solving; Nature of Scientific Knowledge; Creativity and Innovation; Critical Thinking

▲ Collaborative Design; Science, Technology, and Society

■ Entrepreneur, data scientist, educator, lawyer, user experience designer, consultant, doctor

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

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

● Social Issues in Planning; Transportation Planning and Mobility; Urban and Metropolitan Planning and Development

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

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

**\* SUSTAINABILITY AND FINANCIAL MANAGEMENT / FACULTY OF ENVIRONMENT AND SCHOOL OF ACCOUNTING AND FINANCE**

(E, Bachelor of Sustainability and Financial Management) Co-op only

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

● Foundations for Management Accounting; Sustainability Economics; Enterprise Carbon Accounting

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

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

## FACULTY OF HEALTH

**HEALTH SCIENCES / FACULTY OF HEALTH**

(E, Bachelor of Science) Co-op available

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

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

▲ Addictions, Mental Health, and Policy; Gerontology; Health Informatics; Health Research; Pre-Clinical; Neuroscience

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

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

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

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

▲ Neuroscience; Medical Physiology; Ergonomics and Injury Prevention; Human Nutrition; Rehabilitation Sciences

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

**PUBLIC HEALTH / FACULTY OF HEALTH**

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

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

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

▲ Addictions, Mental Health, and Policy; Gerontology; Health Informatics; Health Research

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

**RECREATION AND LEISURE STUDIES / FACULTY OF HEALTH**

(E, Bachelor of Arts) Co-op available

Did you know 95 per cent of people engage in leisure or sport activities daily? Recreation gives us a chance to have fun, stay active, and socialize – and is essential for our health! When you apply, choose one of three majors (M) which start right in first year: Recreation, Leadership, and Health; Sport and Recreation Management; or Therapeutic Recreation.

### RECREATION, LEADERSHIP, AND HEALTH / FACULTY OF HEALTH

(M, Bachelor of Arts) Co-op available

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

- Experience Design and Delivery; Leading Action for Community Change; Leisure and Well-being
- ▲ Event Management; Tourism
- Community recreation programmer, teacher, policy researcher, director of parks and recreation

### SPORT AND RECREATION MANAGEMENT / FACULTY OF HEALTH

(M, Bachelor of Arts) Co-op available

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

- The Business of Professional Sport; Innovative Solutions in Recreation and Sport Business; Amateur Sport from Playground to Podium
- ▲ Event Management; Tourism
- Recreation and events director, marketing and sales director, sport programming manager

### THERAPEUTIC RECREATION / FACULTY OF HEALTH

(M, Bachelor of Arts) Co-op available

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

- Foundations of Therapeutic Recreation Practice; Therapeutic Recreation Facilitation Techniques; Therapeutic Recreation: Physical Disabilities
- ▲ Event Management; Tourism
- Recreation therapist, occupational therapist, elder life specialist, child life specialist, social worker

## FACULTY OF MATHEMATICS

### ACTUARIAL SCIENCE / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

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

- Corporate Finance; Applied Linear Models; Investment Science
- ▲ Finance; Predictive Analytics
- Actuarial analyst, e-trading developer, financial analyst

### APPLIED MATHEMATICS / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

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

- Computational Methods for Differential Equations; Introduction to Mathematical Biology; Calculus of Variations
- ▲ Biology; Economics; Engineering; Physics
- Researcher, software developer, data scientist

### 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 Biostatistics; Statistical Methods for Life History Analysis; Applied Linear Models
- Medical researcher, data analyst, biostatistician

### ⚙️ BUSINESS ADMINISTRATION (LAURIER) AND COMPUTER SCIENCE (WATERLOO) DOUBLE DEGREE / DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

(E, Bachelor of Business Administration and Bachelor of Computer Science) Co-op only

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

- Designing Functional Programs; Understanding the Business Environment; Computer Organization and Design
- Business analyst, software engineer, application developer

### ⚙️ 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; Management Information Systems; Introduction to Optimization
- Securities trader, management analyst, corporate strategist

### 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.

- Coding Theory; Algorithm Design and Analysis; Applied Cryptography
- Developer, operations research analyst, cryptographer

### COMPUTATIONAL MATHEMATICS / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

Learn to combine computer science with powerful mathematical models. You'll harness their powers to better understand the world around you, analyze data, and predict trends. Solve real-world problems using the latest technology for a career in business, economics, engineering, finance, medicine, and science.

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

### COMPUTER SCIENCE / DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

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

Earn a degree from one of the world's top computer science schools. Not only will you develop a broad understanding of systems, networks, algorithms, and software engineering, you can make your degree your own by adding specializations and minors to match your interests and skills.

- Designing Functional Programs; Data Structures and Data Management; The Social Implications of Computing
- ▲ Artificial Intelligence; Bioinformatics; Business; Computational Fine Art; Digital Hardware; Human-Computer Interaction; Software Engineering
- Software developer, web developer, business or risk modeling analyst

### ⚙️ COMPUTING AND FINANCIAL MANAGEMENT / SCHOOL OF ACCOUNTING AND FINANCE AND DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

(E, Bachelor of Computing and Financial Management) Co-op only

Set yourself apart in the fintech market. With this program, you'll learn to solve complex problems in the growing, trillion-dollar financial technology industry. Gain real-world experience during six co-op work terms employed in the software development, banking, investment, risk management, and insurance industries. By combining two majors, computer science and finance, you'll be positioned for an exciting future in fintech or other areas of high tech. Questions? Email [bcfm@uwaterloo.ca](mailto:bcfm@uwaterloo.ca).

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

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

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

Learn to collect, analyze, and find patterns in large data sets in the age of Big Data. This program combines statistics, math, and computer science with electives from business to public health. With more than 1,500 technology companies nearby, take advantage of the thriving tech community, startup culture, and industry connections.

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

### INFORMATION TECHNOLOGY MANAGEMENT / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

Bridge the gap between tech and business. Companies depend on technology teams to solve complex business problems, so speaking IT and business will make you indispensable to financial institutions and corporations. Let your prestigious Bachelor of Mathematics degree – and extensive co-op experience – set you apart in a competitive IT environment.

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

### 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.

- Introduction to Microeconomics; Advanced Macroeconomics; 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 undergrad finance programs. 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.

● Investment Science and Corporate Finance; Forecasting; Real Analysis

■ Controller, treasury manager, 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 modeling 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; Stochastic Simulation Methods; 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 modeler

**MATHEMATICAL STUDIES / FACULTY OF MATHEMATICS**

(M, Bachelor of Mathematics) Co-op available

Choose your own adventure! You're looking for a degree that covers the full spectrum of math. We're one of the world's top centres for math and computer science. Together, we're a logical match! Waterloo's most flexible math program allows you to study algebra, calculus, combinatorics, computer science, number theory, statistics, and more.

● Mathematical Discovery and Invention; Introduction to Mathematical Biology; Coding Theory

■ Software or database specialist, banking executive, public service analyst

**MATHEMATICS / FACULTY OF MATHEMATICS**

(E, Bachelor of Mathematics) Co-op available

Make math your own at Waterloo. After a foundational first year studying topics including mathematics, statistics, and computer science, you'll choose from 14 majors (M) to focus your studies on. Take advantage of study-abroad opportunities and co-op terms, and then use your problem-solving superpowers in today's data-driven marketplace.

**MATHEMATICS/BUSINESS ADMINISTRATION / FACULTY OF MATHEMATICS**

(E, Bachelor of Mathematics) Co-op available

Unlock the dynamic potential of mathematics and succeed in the world of business. This program offers a blend of courses from Waterloo's Faculty of Mathematics and Wilfrid Laurier University's Lazaridis School of Business and Economics. No wonder this popular program – drawing the best and brightest – leads to top-paid co-op work terms and careers.

● Corporate Finance; Introduction to Managerial Accounting; Computer Applications in Business: Databases

■ Operations manager, risk modeling 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 field of your choice, along with equally focused studies in accounting, economics, and business.

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

▲ Data Analytics; Finance

■ Accountant, controller, auditor

**\* MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT / FACULTY OF MATHEMATICS**

(E, Bachelor of Mathematics) Co-op available

Fast-track your journey toward obtaining a Chartered Financial Analyst (CFA) or Professional Risk Management (PRM) designation with a tight-knit class of Math/FARM students. You'll work alongside dedicated classmates to prepare for required accreditation examinations. Make your university experience even better by joining FARM clubs and network your way to the top.

● Computational Methods in Business and Finance; Applied Linear Models and Process Improvement for Business; Commercial and Business Law for Mathematics Students

▲ Chartered Financial Analyst; Professional Risk Management

■ Financial analyst, risk analyst, investment analyst

**MATHEMATICS/TEACHING / FACULTY OF MATHEMATICS**

(M, Bachelor of Mathematics) Co-op only

Inspire the next generation of math lovers. Combine your math, statistics, and computer science courses with eight months of classroom experience – more than any other Bachelor of Education preparatory program in Canada – before you apply to teachers' college. Want to do some of your learning overseas? Explore our exchange opportunities.

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

■ Teacher, online learning consultant, instructional media 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

■ Software model developer, operations analyst, researcher and academic

**\* SOFTWARE ENGINEERING**

See Faculty of Engineering section (page 43) for details.

**STATISTICS / FACULTY OF MATHEMATICS**

(M, Bachelor of Mathematics) Co-op available

Earn a highly significant degree at one of the world's top centres for statistics. Learn about research methods and statistical applications to help engineers develop better AI technologies, researchers evaluate medical treatments, governments shape effective policies, and more. In today's data-driven world, these are skills in high demand!

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

■ Biostatistician, business intelligence specialist, software quality analyst

**FACULTY OF SCIENCE****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

**BIOLOGICAL AND MEDICAL PHYSICS / FACULTY OF SCIENCE**

(M, Bachelor of Science) Co-op available

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

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

■ Medical physicist, physician, biophysicist

**BIOLOGY / FACULTY OF SCIENCE**

(M, Bachelor of Science) Co-op available

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

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

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

**BIOMEDICAL SCIENCES / FACULTY OF SCIENCE**

(M, Bachelor of Science) Regular only

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

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

■ Dentist, optometrist, pharmacist, physician



**\* 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; Business Strategy; Fermentation Biotechnology
- Accountant, portfolio manager, analyst

**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; Introductory Quantum Mechanics
- ▲ Computational Chemistry
- Analytical chemist, chemistry patents agent, forensic scientist

**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

**ENVIRONMENTAL SCIENCES / FACULTY OF SCIENCE**

(E, Bachelor of Science) Co-op available

Earn a science degree. Protect the Earth. Ranked fifth 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; Environmental Toxicology; Biostatistics and Experimental Design
- ▲ Ecology; Geoscience; Water Science
- Geoscientist, ecologist, environmental consultant

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

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

- Fundamentals of Microbiology; Modern Physics; Advanced Geochemistry
- Physician, optometrist, pharmacist, genetic counsellor, teacher

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

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

**MATERIALS AND NANOSCIENCES / FACULTY OF SCIENCE**

(M, Bachelor of Science) Co-op available

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

- Materials and Nanosciences in the Modern World; Chemistry and the Solid State; Biomaterials
- Materials scientist, nanotechnologist, materials process specialist

**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 for careers involving anything from the theoretical foundations of quantum technology to the nature of the universe.

- Computational Physics and Linear Algebra; Quantum Physics; Classical Mechanics and Special Relativity
- Theoretical physicist, data scientist, quantitative analyst

**MEDICINAL CHEMISTRY / FACULTY OF SCIENCE**

(M, Bachelor of Science) Co-op only

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

- Chemical Kinetics and Statistical Mechanics; Transition Element Compounds and Inorganic Materials; Fundamentals of Metabolism
- Medicinal chemist, research chemist, synthetic chemist

**\* OPTOMETRY / SCHOOL OF OPTOMETRY AND VISION SCIENCE** (E, Doctor of Optometry) Regular only

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

- Diseases of the Eye; Practice Management; Neurophysiology of Vision
- Registered optometrist; careers in private practice, academia, and industry

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

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

- Integrated Patient Focused Care; Professional Practice; Medical Microbiology
- Registered pharmacist; work in community practice, hospitals, and family health teams

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

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

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

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

- Thermal Physics; Statistical Mechanics; Electricity and Magnetism
- Physicist, research and development scientist, analyst, teacher

**PHYSICS AND ASTRONOMY / FACULTY OF SCIENCE**

(M, Bachelor of Science) Co-op available

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

- Introduction to the Universe; Geometrical and Physical Optics; Galaxies
- Astronomer, aerospace scientist, remote sensing scientist

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

Attention all brainiacs. Explore the science of the human mind. In this top-ranked program, you'll take science, math, and psychology courses that emphasize research and data analysis. There's plenty of hands-on co-op and lab learning too. A Bachelor of Science in Psychology is the perfect launchpad for a career in psychiatry, neurology, cognitive neuroscience, and more.

- Organizational Psychology; Advanced Data Analysis; Natural Science Advanced Research Methods Topics
- Neuroscientist, child psychologist, psychiatrist

**\* SCIENCE AND AVIATION / FACULTY OF SCIENCE**

(E, Bachelor of Science) Regular only

Is your head in the clouds? Earn a Bachelor of Science degree and your Commercial Pilot Licence through the largest university aviation program in Canada. Customize your studies to include courses from a range of scientific disciplines, such as physics or earth sciences. Whichever courses you choose, you'll graduate with more than 200 flight hours.

- Earth from Space Using Remote Sensing; Physical Climatology; Human Factors in Aviation
- Pilot, flight training instructor, aerial surveyor

**SCIENCE AND BUSINESS / FACULTY OF SCIENCE**

(E, Bachelor of Science) Co-op available

Become a scientist with solid business skills or a business professional who speaks the language of science. This unique program provides a strong foundation in science, along with courses in accounting, economics, marketing, computing, statistics, and human resources.

- Business Law; Entrepreneurship and the Creative Workplace; General Chemistry
- ▲ Biochemistry; Biology; Biotechnology
- Medical information specialist, biotechnology accounts manager, project manager, program analyst

# ADMISSION REQUIREMENTS

## AMERICAN AND INTERNATIONAL BACCALAUREATE SYSTEMS

**NOTES**

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. †Choose your major: see lists on pages 26-37. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

[uwaterloo.ca/future/admissions](http://uwaterloo.ca/future/admissions)



**VIEW ADMISSION REQUIREMENTS**  
for other systems of study

[uwaterloo.ca/future/requirements](http://uwaterloo.ca/future/requirements)

### AMERICAN SYSTEM

High school diploma with six prerequisite courses completed at the AP level and/or Grade 12 senior academic level.

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

### INTERNATIONAL BACCALAUREATE (IB) SYSTEM

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

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

PROGRAM (APPLY TO)/SYSTEM OF STUDY/ADDITIONAL REQUIREMENTS	
<b>ARTS</b>	<b>Accounting and Financial Management</b> Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.
	<b>Global Business and Digital Arts</b> Co-op only.
	<b>Honours Arts</b> <sup>†</sup> (Waterloo, St. Jerome's, Renison) Regular and co-op. <b>Social Development Studies</b> (Renison) Regular only.
	<b>Honours Arts and Business</b> <sup>†</sup> (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through Renison.
<b>CFM</b>	<b>Computing and Financial Management</b> Co-op only. AIF required.

<b>ENGINEERING</b>	<b>Architecture</b> Co-op only. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.
	<b>Architectural, Biomedical, Chemical, Civil, Computer, Electrical, Environmental, Geological, Management, Mechanical, Mechatronics, Nanotechnology, Systems Design</b> Co-op only. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.
<b>SOFTWARE ENGINEERING</b>	<b>Software Engineering</b> Co-op only. AIF required. Experience developing well-structured, modular programs is required. Online video interview required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.
<b>ENVIRONMENT</b>	<b>Climate and Environmental Change</b> Regular and co-op.
	<b>Environment and Business</b> Co-op only.
	<b>Environment, Resources and Sustainability; Geography and Environmental Management</b> Regular and co-op.
	<b>Geography and Aviation</b> Regular only. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.
	<b>Geomatics</b> Regular and co-op.
	<b>Knowledge Integration</b> Regular only.
	<b>Planning</b> Co-op only.
<b>HEALTH</b>	<b>Health Sciences</b> Regular and co-op.
	<b>Kinesiology</b> Regular and co-op.
	<b>Public Health</b> Regular and co-op.
	<b>Recreation and Leisure Studies</b> <sup>†</sup> Regular and co-op.
<b>MATHEMATICS</b>	<b>Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) – Double Degrees</b> Co-op only. AIF required. Individual selection may vary.
	<b>Computer Science</b> <sup>†</sup> Regular and co-op. AIF required. Individual selection may vary.
	<b>Mathematics</b> <sup>†</sup> , <b>Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management</b> Regular and co-op. AIF required. Individual selection may vary.
	<b>Mathematics/Chartered Professional Accountancy</b> Co-op only. AIF required. Individual selection may vary.
<b>SCIENCE</b>	<b>Biotechnology/Chartered Professional Accountancy</b> Co-op only. <b>Environmental Sciences, Life Sciences</b> <sup>†</sup> , <b>Physical Sciences</b> <sup>†</sup> , <b>Science and Business</b> Regular and co-op. <b>Honours Science</b> Regular only. <b>Science and Aviation</b> Regular only, program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.
<b>SFM</b>	<b>Sustainability and Financial Management</b> Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.

**AMERICAN SYSTEM****INTERNATIONAL BACCALAUREATE SYSTEM**

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

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

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

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

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

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

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

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

Grade 12 English, min. 80%; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 90%.

HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A, min. 4, or HL English B, min. 5. Total 32.

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

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

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

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.

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

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.

Grade 12 English and Grade 12 Mathematics, min. 75% in each; senior-level Chemistry or senior-level Physics. Average 85%.

HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; one of HL or SL Chemistry or Physics. Total 27.

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

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

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

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

Grade 12 English and Grade 12 Mathematics, min. 75% in each; strongly recommended: one Grade 12 course in Physical or Environmental Science. Average 88%.

HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; strongly recommended: one SL course in Physical or Environmental Science. Total 27.

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

HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4. Total 27.

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

HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4; HL or SL Science, min. 4. Total 27.

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

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

Senior-level Chemistry; senior-level Biology; Grade 12 Mathematics; and Grade 12 English, min. 75% in each. Average 88%.

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

One of Honours Pre-Calculus, Grade 12 Calculus, or AP Calculus; Grade 12 English; two of senior-level Chemistry, Biology, or Physics, min. 75% in each. Average 85%.

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

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

HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: HL or SL Analysis and Approaches or HL Applications and Interpretations, min. 4. Total 27.

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

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

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

HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.

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

HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.

Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 88%.

HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 30.

Grade 12 English; AP Calculus, min. 4; Algebra (Pre-Calculus) or AP Pre-Calculus, min. 4. Average 88%.

HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 30.

AP Calculus or Grade 12 Calculus, min. 75% (80% for Biotech/CPA); Grade 12 English, min. 75% (80% for Biotech/CPA); Algebra (Pre-Calculus); two of Biology, Chemistry, Physics, or Statistics; one other Grade 12 academic or AP course. Average 85%, including required courses, except for Science and Aviation: average 88%.

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

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

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

# ADMISSION REQUIREMENTS

## ONTARIO AND BRITISH SYSTEMS

### NOTES

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. †Choose your major: see lists on pages 26-37. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

[uwaterloo.ca/future/admissions](http://uwaterloo.ca/future/admissions)

### ONTARIO SECONDARY SCHOOL SYSTEM

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

### BRITISH SYSTEM – A LEVELS

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

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

**NOTE:**  
min. = minimum final grade.

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

#### ARTS

**Accounting and Financial Management** Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.

**Global Business and Digital Arts** Co-op only.

**Honours Arts**<sup>†</sup> (Waterloo, St. Jerome's, Renison) Regular and co-op. **Social Development Studies** (Renison) Regular only.

**Honours Arts and Business**<sup>†</sup> (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through Renison.

#### CFM

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

#### ENGINEERING

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

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

#### ENG-SOFT-WARE

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

#### ENVIRONMENT

**Climate and Environmental Change** Regular and co-op.

**Environment and Business** Co-op only.

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

**Geography and Aviation** Regular only. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.

**Geomatics** Regular and co-op.

**Knowledge Integration** Regular only.

**Planning** Co-op only.

#### HEALTH

**Health Sciences** Regular and co-op.

**Kinesiology** Regular and co-op.

**Public Health** Regular and co-op.

**Recreation and Leisure Studies**<sup>†</sup> Regular and co-op.

#### MATHEMATICS

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

**Computer Science**<sup>†</sup> Regular and co-op. AIF required. Individual selection may vary.

**Mathematics**<sup>†</sup>, **Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required. Individual selection may vary.

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

#### SCIENCE

**Biotechnology/Chartered Professional Accountancy** Co-op only. **Environmental Sciences, Life Sciences**<sup>†</sup>, **Physical Sciences**<sup>†</sup>, **Science and Business** Regular and co-op. **Honours Science** Regular only. **Science and Aviation** Regular only, program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.

#### SFM

**Sustainability and Financial Management** Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.

**ONTARIO SECONDARY SCHOOL SYSTEM**
**BRITISH SYSTEM – A LEVELS**

Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%). Average mid-80s.

A Level Math, min. B; two other A Level courses, min. B in each; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 75%). Average low 80s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%). Average low 80s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%). Average low 80s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 75%); Advanced Functions; Calculus and Vectors; one other Grade 12 U course. Average low to mid-90s.

A Level Math and two other academic A Level courses, min. A in each; English at the GCSE, AS, or A Level, min. B/5.

English (ENG4U – min. 75%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Physics (min. 70%). Average mid-80s.

A Level Math and A Level Physics, min. B in each; one additional A Level course, min. B; English at the GCSE, AS, or A Level, min. B/5; one additional course at the GCSE, AS, or A Level, min. B/5.

Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); English (ENG4U – min. 70%); Physics (min. 70%). Average mid- to high 80s. Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design, average high 80s to low 90s.

A Level Math and A Level Physics, min. A in each; one additional A Level course, min. B; Chemistry (GCSE Level required, A Level recommended), min. B/5; GCSE Level English, min. B/5. As and A\*s recommended.

Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); English (ENG4U – min. 70%); Physics (min. 70%). Average low to mid-90s.

A Level Math and A Level Physics, min. A in each; one additional A Level course, min. B; Chemistry (GCSE Level required, A Level recommended), min. B/5; GCSE Level English, min. B/5. As and A\*s recommended.

English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%); Chemistry or Physics. Average high 70s.

A Level Math or Further Math, min. B; either A Level Physics or Chemistry, plus one other A Level course, min. B and C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%). Average high 70s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%). Average high 70s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%). Average mid-80s.

A Level Math or Further Math, min. B; two other A Level courses, min. B and C; strongly recommended: one A Level course in Physical or Environmental Science; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%); any Grade 12 U Mathematics (min. 70%). Average high 70s.

A Level Math or Further Math, min. B; two other A Level courses, min. one B and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%); any Grade 12 U Science (min. 70%); any Grade 12 U Mathematics (min. 70%). Average high 70s to low 80s.

A Level Math or Further Math, min. B; one A Level Science course, min. B; one additional A Level course, min. C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 75%). Average low 80s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%); Biology (min. 70%); Chemistry (min. 70%); any Grade 12 U Mathematics (min. 70%). Average mid-80s (regular), high 80s (co-op).

A Level Math or Further Math, min. B; Biology and Chemistry, one at the A Level, the other at either the GCSE, AS, or A Level, min. B/5; one other academic A Level course, min. B/5; English at either the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%); any two of the following: Biology (min. 70%), Chemistry (min. 70%), or Physics (min. 70%); one of the following: Advanced Functions (min. 70%) or Calculus and Vectors (min. 70%). Average low 80s (regular), mid-80s (co-op).

A Level Math, min. B; two of Biology, Chemistry, or Physics (one must be A Level, min. B); one other academic A Level course, min. C; English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 75%); any Grade 12 U Mathematics (min. 70%). Average low 80s (regular), mid-80s (co-op).

A Level Math or Further Math, min. B; two other A Level courses (one must be min. B and the other must be min. C); English at the GCSE, AS, or A Level, min. B/5.

Any Grade 12 U English (min. 70%). Average low 80s.

Three A Level courses, min. two Bs and one C; English at the GCSE, AS, or A Level, min. B/5.

Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Business Administration (Laurier) and Computer Science (Waterloo) Double Degree average low to mid-90s. Business Administration (Laurier) and Mathematics (Waterloo) Double Degree average mid- high 80s.

A Level Math, min. A; two other academic A Level courses, min. A in each; English at the GCSE, AS, or A Level.

Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average low to mid-90s.

A Level Math, min. A; two other academic A Level courses, min. A in each; English at the GCSE, AS, or A Level.

Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average mid-80s.

A Level Math, min. A; two other academic A Level courses, min. A in each; English at the GCSE, AS, or A Level.

Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course. Average mid-80s.

A Level Math, min. A; two other academic A Level courses, min. A in each; English at the GCSE, AS, or A Level.

English (ENG4U – min. 70%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); any two of the following: Biology, Chemistry, Earth and Space Science, Mathematics of Data Management, or Physics. Average low 80s. Biotechnology/Chartered Professional Accountancy low to mid-80s. Science and Aviation mid-80s.

A Level Math, min. B; two of Biology, Chemistry, or Physics (one must be A Level, min. B); one other academic A Level course, min. B; GCSE Level English, min. B/5. Higher grades required for Biotechnology/Chartered Professional Accountancy.

Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%). Average mid-80s.

A Level Math, min. B; and two other A Level courses, min. B in each; English at the GCSE, AS, or A Level, min. B/5.

# ADMISSION REQUIREMENTS

## INDIAN AND CHINESE SYSTEMS

### NOTES

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. †Choose your major: see lists on pages 26-37. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

[uwaterloo.ca/future/admissions](http://uwaterloo.ca/future/admissions)

### INDIAN SYSTEM

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

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

### CHINESE SYSTEM

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

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

### APPLICATION TIPS

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

[uwaterloo.ca/future/documents](http://uwaterloo.ca/future/documents)

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

#### ARTS

**Accounting and Financial Management** Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.

**Global Business and Digital Arts** Co-op only.

**Honours Arts<sup>†</sup>** (Waterloo, St. Jerome's, Renison) Regular and co-op.  
**Social Development Studies** (Renison) Regular only.

**Honours Arts and Business<sup>†</sup>** (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through Renison.

#### CFM

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

#### ENGINEERING

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

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

#### ENG

#### WARE

#### SOFT-

#### WARE

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

#### ENVIRONMENT

**Climate and Environmental Change** Regular and co-op.

**Environment and Business** Co-op only.

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

**Geography and Aviation** Regular only. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.

**Geomatics** Regular and co-op.

**Knowledge Integration** Regular only.

**Planning** Co-op only.

#### HEALTH

**Health Sciences** Regular and co-op.

**Kinesiology** Regular and co-op.

**Public Health** Regular and co-op.

**Recreation and Leisure Studies<sup>†</sup>** Regular and co-op.

#### MATHEMATICS

**Business Administration (Laurier) and Computer Science (Waterloo), Business Administration (Laurier) and Mathematics (Waterloo) – Double Degrees** Co-op only. AIF required.

**Computer Science<sup>†</sup>** Regular and co-op. AIF required.

**Mathematics<sup>†</sup>, Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required.

**Mathematics/Chartered Professional Accountancy** Co-op only. AIF required.

#### SCIENCE

**Biotechnology/Chartered Professional Accountancy** Co-op only. **Environmental Sciences, Life Sciences<sup>†</sup>, Physical Sciences<sup>†</sup>, Science and Business** Regular and co-op. **Honours Science** Regular only. **Science and Aviation** Regular only, program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.

#### SFM

**Sustainability and Financial Management** Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.

INDIAN SYSTEM	CHINESE SYSTEM
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 80% in each. Overall 88% in Senior 3.
Std XII English, min. 75%. Overall 80% Std XII.	Senior 3 English, min. 80%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std English, min. 75%; Std XII Mathematics and one other Std XII academic course, min. 90% in each. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English, min. 80%. Overall 90% in Senior 3.
Std XII Mathematics and Std XII Physics, min. 70%; Std XII English, min. 75%; two other Std XII courses. Overall 80% Std XII.	Senior 3 Mathematics, min. 76%; Senior 3 Physics, min. 76%; Senior 3 English, min. 80%. Overall 88% in Senior 3.
Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min. 75% in each; one other Senior 3 academic course, min. 75%. Overall 88% in the five required courses.
Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min. 70% in each. Overall 85% in the five required courses.	Senior 3 Mathematics, Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min. 75% in each; one other Senior 3 academic course, min. 75%. Overall 88% in the five required courses.
Std XII English and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each; Std XII Chemistry or Std XII Physics. Overall 80% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 75%; Senior 3 Chemistry or Senior 3 Physics. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII English and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each; strongly recommended: Std XII Physical or Environmental Science. Overall 80% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 75% in each; strongly recommended: Senior 3 course in Physical or Environmental Science. Overall 88% in Senior 3.
Std XII English and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall 80% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 75% in each. Overall 85% in Senior 3.
Std XII English, Std XII Mathematics or Std XII Applied Mathematics, and one Std XII Science course, min. 70% in each. Overall 80% Std XII.	Senior 3 English, Senior 3 Mathematics, and one Senior 3 Science, min. 75% in each. Overall 85% in Senior 3.
Std XII English, min. 75%. Overall 80% Std XII.	Senior 3 English, min. 80%. Overall 85% in Senior 3.
Std XII English, Std XII Biology, Std XII Chemistry, and Std XII Mathematics or Std XII Applied Mathematics, min. 70% in each. Overall 80% Std XII.	Senior 3 Chemistry, Senior 3 Biology, Senior 3 Mathematics, and Senior 3 English, min. 75% in each. Overall 88% in Senior 3.
Std XII English and Std XII Mathematics, min. 70% in each; two of Std XII Chemistry, Std XII Physics, or Std XII Biology, min. 70%. Overall 80% Std XII.	Senior 3 Mathematics and Senior 3 English, min. 75% in each; two of Chemistry, Physics, or Biology at the Senior 3 level, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 75%; Std XII Mathematics or Std XII Applied Mathematics, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 80%; Senior 3 Mathematics, min. 75%. Overall 85% in Senior 3.
Std XII English, min. 70%. Overall 80% Std XII.	Senior 3 English, min. 75%. Overall 85% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 90% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 85% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 90% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 85% in each; Std XII English. Overall 80% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 88% in Senior 3.
Std XII Mathematics and one other Std XII academic course, min. 90% in each; Std XII English. Overall 80% Std XII.	Senior 3 Mathematics, min. 90%; Senior 3 English. Overall 88% in Senior 3.
Std XII Mathematics, min. 70% (80% for Biotech/CPA); Std XII English, min. 70% (80% for Biotech/CPA); two of Std XII Biology, Std XII Chemistry, or Std XII Physics; one other Std XII course. Overall 80%, including required courses.	Senior 3 Mathematics, min. 75% (80% for Biotech/CPA); Senior 3 English, min. 75% (80% for Biotech/CPA); two of Senior 3 Biology, Senior 3 Chemistry, or Senior 3 Physics; one other Senior 3 academic course. Overall 85% in Senior 3, including required courses. (88% for Science and Aviation).
Std XII English, min. 75%; Std XII Mathematics, min. 75%. Overall 85% Std XII.	Senior 3 English and Senior 3 Mathematics, min. 80% in each. Overall 88% in Senior 3.

# APPLY TO WATERLOO

[uwaterloo.ca/future/apply](https://uwaterloo.ca/future/apply)

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

## HOW DO I GET STARTED?

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

[uwaterloo.ca/future/documents](https://uwaterloo.ca/future/documents)

## IMPORTANT FALL 2025 APPLICATION DEADLINES

APPLICATIONS  
OPEN ON THE OUAC  
**LATE  
SEPTEMBER  
2024**

### FOR MOST PROGRAMS

APPLY AND PAY YOUR APPLICATION FEES TO THE OUAC BY  
**JANUARY 31, 2025**

DOCUMENTS MUST REACH THE UNIVERSITY OF WATERLOO BY  
**FEBRUARY 14, 2025**

### FOR ENGINEERING PROGRAMS (EXCLUDING ARCHITECTURE)

APPLY AND PAY YOUR APPLICATION FEES TO THE OUAC BY  
**JANUARY 15, 2025**

DOCUMENTS MUST REACH THE UNIVERSITY OF WATERLOO BY  
**JANUARY 31, 2025**

## WHAT ABOUT ENGLISH LANGUAGE TEST SCORES?

If your first language is not English and you have not studied in an English-language school system for the four years immediately before beginning your studies at Waterloo, you must meet or exceed the minimum scores required for one of the accepted tests.

### MINIMUM SCORES REQUIRED FOR DIRECT ENTRY\*

INTERNET-BASED TOEFL	IELTS	CAEL	PTE (ACADEMIC)	CAMBRIDGE ASSESSMENT (C1 OR C2)	DUOLINGO**	ENGLISH FOR ACADEMIC SUCCESS
90 overall, 25 writing, 25 speaking	6.5 overall, 6.5 writing, 6.5 speaking, 6.0 reading, 6.0 listening	70 overall, 60 per band, 70 writing, 70 speaking	63 overall, 65 writing, 65 speaking	180 overall, 176 writing, 176 speaking, 176 reading, 176 listening	120 overall, 125 literacy, 125 production	75% overall in 400 levels, 75% academic, 75% oral, 75% writing

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

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

## Q&A

### WHAT'S AN ADMISSION INFORMATION FORM (AIF)?

The AIF lets you tell us more about yourself! For programs in the faculties of Math and Engineering, an AIF is required as we use this in addition to your grades to make admission decisions.

[uwaterloo.ca/future/aif](https://uwaterloo.ca/future/aif)

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

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

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

### HOW DO I RECEIVE ASSISTANCE WITH THE APPLICATION PROCESS?

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

**Note:** Applying for special consideration does not guarantee admission.

[uwaterloo.ca/future/consideration](https://uwaterloo.ca/future/consideration)



# TUITION AND SCHOLARSHIPS

[uwaterloo.ca/future/financing](http://uwaterloo.ca/future/financing)

Estimate your total first-year costs using our online cost calculator. Our website also offers detailed information on scholarships and faculty-specific awards.

## ENTRANCE SCHOLARSHIPS



EXPLORE SCHOLARSHIPS

[uwaterloo.ca/future/international-scholarships](http://uwaterloo.ca/future/international-scholarships)

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

**\$1,000-\$5,000**

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

**\$1,000-\$40,000**

**TIP:** Some scholarships require an application.

Be sure to mark your calendar and apply by the deadline!

## TUITION FEES

FOR TWO ACADEMIC TERMS (CANADIAN DOLLARS)

PROGRAM/FACULTY	INTERNATIONAL TUITION (STUDY PERMIT)
Accounting and Financial Management*, Sustainability and Financial Management*	\$57,000
Architecture	\$73,000
Biotechnology/Chartered Professional Accountancy*	\$52,000
Business Administration (Laurier) and Mathematics (Waterloo) Double Degree	\$62,000
Computer Science, Business Administration (Laurier) and Computer Science (Waterloo) Double Degree	\$73,000
Computing and Financial Management*	\$62,000
Faculty of Arts	\$57,000
Faculty of Engineering, Software Engineering	\$73,000
Faculty of Environment	\$50,000
Faculty of Health	\$50,000
Faculty of Science	\$52,000
Global Business and Digital Arts	\$55,000
Mathematics, Mathematics/Business Administration	\$60,000
Mathematics/Chartered Professional Accountancy*	\$60,000
Mathematics/Financial Analysis and Risk Management	\$62,000

**Notes:** Estimated amounts listed include incidental fees. Co-op fee of \$786, paid four to eight times throughout your degree, also applies. See the website for fee details. Fees based on 2024-25 tuition rates. In recognition of the Jay Treaty, Native American students from the continental U.S. are eligible for Ontario domestic tuition instead of international student tuition. Learn more: [uwaterloo.ca/future/tuition-waiver](http://uwaterloo.ca/future/tuition-waiver).

\*Tuition is significantly higher in your upper years.

## EARN WHILE YOU LEARN

Through co-op you can earn

**\$9,600-\$22,500**

per four-month work term

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

**\$2,500**

per school term

**Notes:** Our provincial minimum wage is \$16.55 per hour. \*Exceptions apply. Visa details are available at [www.canada.ca](http://www.canada.ca). Co-op students must have a work permit.

## ADDITIONAL EXPENSES

FOR TWO ACADEMIC TERMS (CANADIAN DOLLARS)

**RESIDENCE** From \$6,946 (traditional – double room) to \$9,244 (single room, suite style).

**MEAL PLAN** From \$6,230 (lite) to \$7,230 (hearty).

**PERSONAL EXPENSES** \$4,320 on average (\$540/month). Expenses may include phone, laundry, clothing, Internet, personal care, and entertainment; depends on your lifestyle.

**BOOKS AND SUPPLIES** Most programs estimate \$2,500 (\$4,225 for Architecture students).

Your first-year expenses excluding tuition are estimated to be between \$20,000 and \$25,000.



## TAKE THE NEXT STEP

Ready to discover our campus and experience life as a Warrior? Attend one of our events to learn about our programs, campus, and Warrior community.

**FALL OPEN HOUSE**  
NOVEMBER 9, 2024

**MARCH OPEN HOUSE**  
MARCH 22, 2025

[uwaterloo.ca/future/visit](http://uwaterloo.ca/future/visit)

# YOURS TO EXPLORE

Wherever you're headed on our pedestrian-friendly campus, you can be there in 20 minutes or less. With gardens, patios, and creekside benches to enjoy in the summer, and tunnels and overpasses to keep you warm in the winter, getting to class is a walk in the park.











## 3 SATELLITE CAMPUSES

in Cambridge, Kitchener, and Stratford

# 35,700+

undergraduate students;  
18% international

### BUILDING LEGEND

-  STUDENT SERVICES
-  RESIDENCES
-  UNIVERSITY COLLEGES
-  ARTS
-  ENGINEERING
-  ENVIRONMENT
-  HEALTH
-  MATHEMATICS
-  SCIENCE
-  COMING SOON: INDIGENOUS GATHERING SPACE

# CAMPUS MAP



# IMPORTANT CONTACTS

## GENERAL QUESTIONS?

519-888-4567, ext. 43614

[askus@uwaterloo.ca](mailto:askus@uwaterloo.ca)

## QUESTIONS ABOUT APPLYING?

519-888-4567, ext. 43106

[myapplication@uwaterloo.ca](mailto:myapplication@uwaterloo.ca)

## PROGRAM-RELATED QUESTIONS?

Faculty of Arts

[arts@uwaterloo.ca](mailto:arts@uwaterloo.ca)

Faculty of Engineering

[enginfo@uwaterloo.ca](mailto:enginfo@uwaterloo.ca)

Faculty of Environment

[envinfo@uwaterloo.ca](mailto:envinfo@uwaterloo.ca)

Faculty of Health

[health@uwaterloo.ca](mailto:health@uwaterloo.ca)

Faculty of Mathematics

[mathinfo@uwaterloo.ca](mailto:mathinfo@uwaterloo.ca)

Faculty of Science

[science@uwaterloo.ca](mailto:science@uwaterloo.ca)

## OTHER WATERLOO CONTACTS

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# APPLICATION CHECKLIST

Your guide to full-time undergraduate studies at Waterloo.

[uwaterloo.ca/future/apply](https://uwaterloo.ca/future/apply)



## 1. CHOOSE YOUR PROGRAM

Read through the program descriptions on pages 40-47 and review the admission requirements on pages 48-53. Explore even more online.

[uwaterloo.ca/future/programs](https://uwaterloo.ca/future/programs)



## 2. APPLY ONLINE

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

[ouac.on.ca](https://ouac.on.ca)



## 3. LOG IN TO YOUR WATERLOO ACCOUNT

Once you've applied, we'll email you details about getting started. Add [myapplication@uwaterloo.ca](mailto:myapplication@uwaterloo.ca) and [askus@uwaterloo.ca](mailto:askus@uwaterloo.ca) to your contacts so you don't miss our emails!



## 4. SEND US YOUR DOCUMENTS

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

[uwaterloo.ca/future/documents](https://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 (pages 48-53) for details.

[uwaterloo.ca/future/aif](https://uwaterloo.ca/future/aif)



## 6. JOIN OUR MAILING LIST

Get tips and advice from current Waterloo students.

[uwaterloo.ca/future/subscribe](https://uwaterloo.ca/future/subscribe)



# YOU+WATERLOO

*Our greatest impact happens together*



## **WATERLOO IS COMMITTED TO ACTING ON THE CLIMATE EMERGENCY**

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

UNIVERSITY OF WATERLOO  
200 UNIVERSITY AVE. W., WATERLOO, ON, CANADA N2L 3G1

[uwaterloo.ca/future](http://uwaterloo.ca/future)

 @UofWaterlooFuture  ExperienceWaterloo



Welcome to the World's Favourite Classroom



**EduCanada**  
A world of possibilities  
Un monde de possibilités