DISCOVER YOUR STORY AT WATERLOO

CANADIAN 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.

WHAT'S INSIDE

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

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

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.

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."

– Yuvika, 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

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	**Work**	Study
	Spring	Off	Study	**Work**
2	Fall	Study	**Work**	Study
	Winter	**Work**	Study	**Work**
	Spring	Study	**Work**	Study
3	Fall	**Work**	Study	**Work**
	Winter	Study	**Work**	Study
	Spring	**Work**	Study	**Work**
4	Fall	Study	**Work**	Study
	Winter	**Work**	Study	**Work**
	Spring	**Work**	**Work**	Study
5	Fall	Study	Study	**Work**
	Winter	Study	Study	Study

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

GO IN DEPTH WITH CO-OP

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

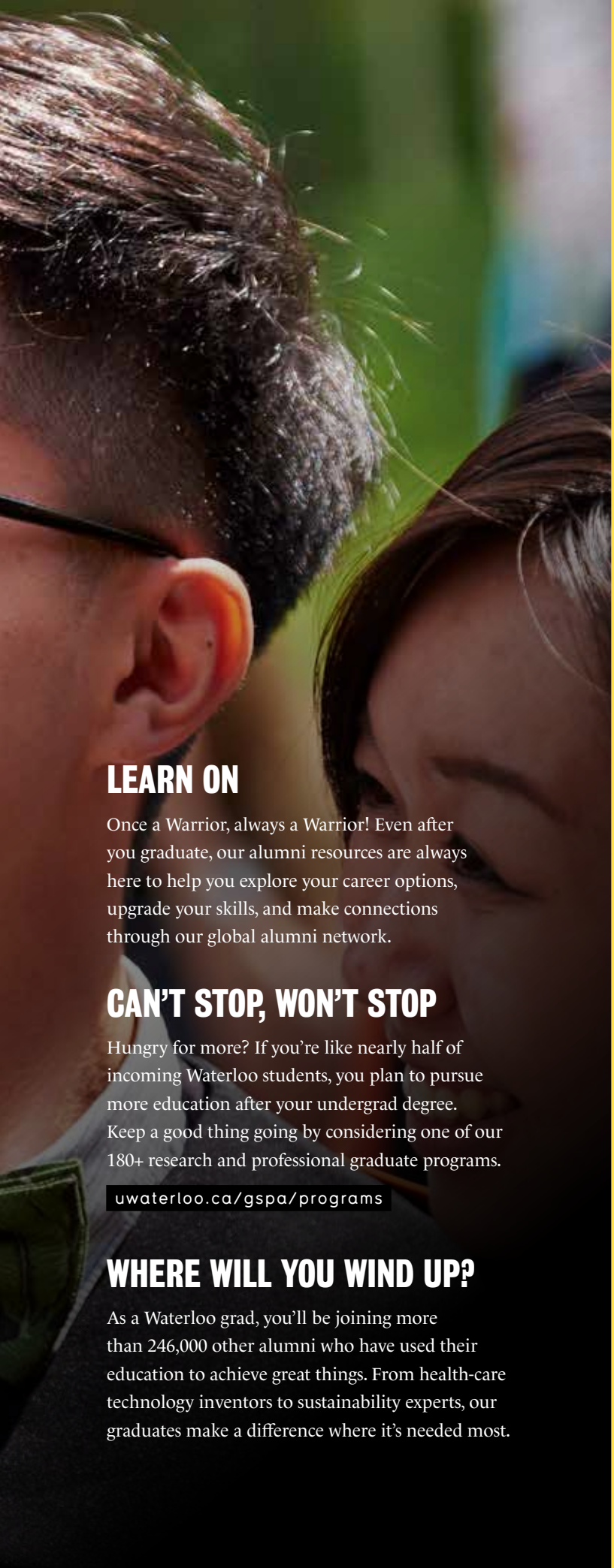
uwaterloo.ca/future/creator

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

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

DISCOVER WHERE YOU'RE MEANT TO BE

WATERLOO EXPERIENCES

ATTEND ORIENTATION

"Orientation made me feel like I belonged at Waterloo. It had both a supportive and exciting atmosphere, which made it easier to make new friends and step outside my comfort zone."

– Delainey, Mechanical Engineering, Co-op

EXPLORE THE CITY

"It's so easy to get around Waterloo! I spent time finding cute cafés and restaurants around the city – it's such a fun way to find 'your spot' with your friends, and you never run out of things to do."

– Pratyusha, Honours Arts, Sociology major, Co-op

BUILD YOUR COMMUNITY

"Living in residence was one of the best decisions I made in first year. My don planned fun events for the whole floor, like paint nights, dodgeball games, and movie nights. I made many friends who were able to offer me support."

– Samantha, Physical Sciences, Physics major, Co-op

GET ACTIVE

"Even though I was shy about getting involved, I joined and volunteered in many campus activities. The more I got involved at Waterloo, the more I felt comfortable being myself and being a part of this great community."

– Serra, Life Sciences, Biomedical Sciences major

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."

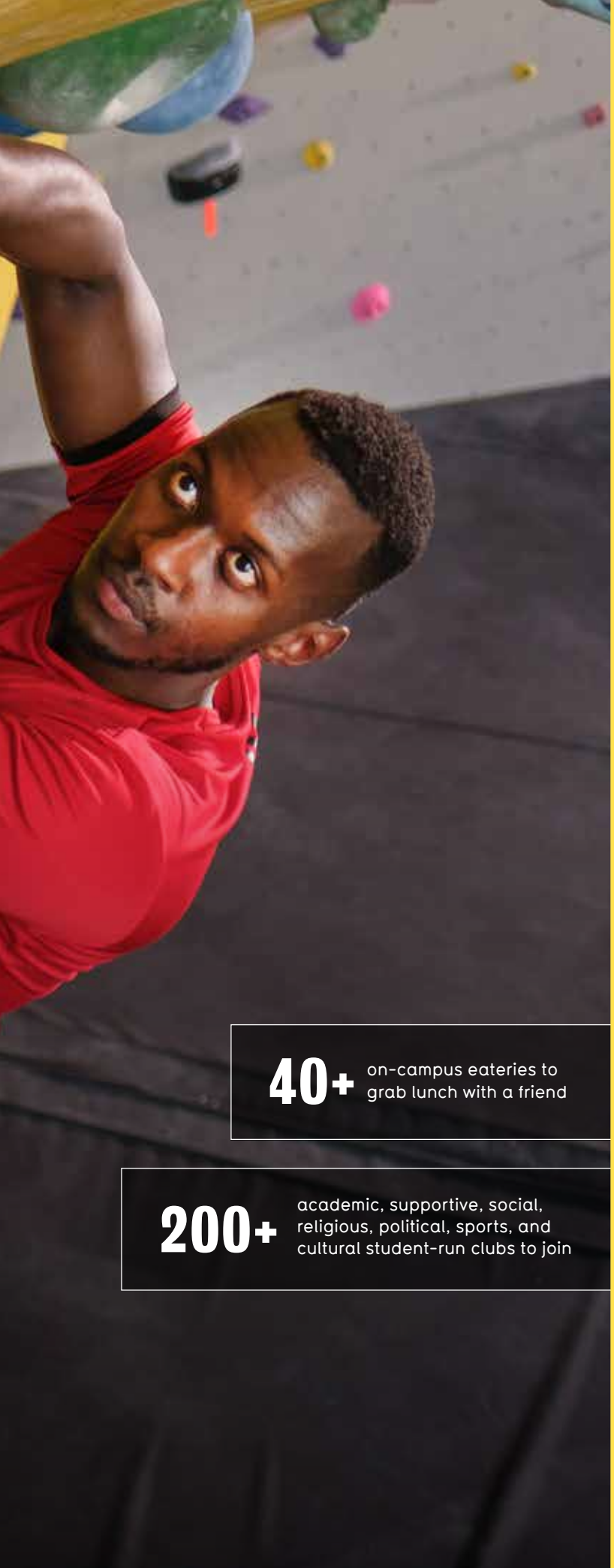
– Siddharth, Business Administration (Laurier) and Computer Science (Waterloo) Double Degree, Co-op

DISCOVER MORE FIRST-YEAR YOU STORIES

uwaterloo.ca/future/first-year

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.



40+ on-campus eateries to grab lunch with a friend

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.

HIT THE CLUBS

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!

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

ATHLETICS AND RECREATION

As a Waterloo student, you'll be immersed in an exciting world of new ideas and academic challenges. To be successful, you'll need to keep your body as healthy as your mind. That's why we have over 250 recreation programs designed for your busy schedule.

FLEX YOUR WELLNESS

WARRIOR RECREATION

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

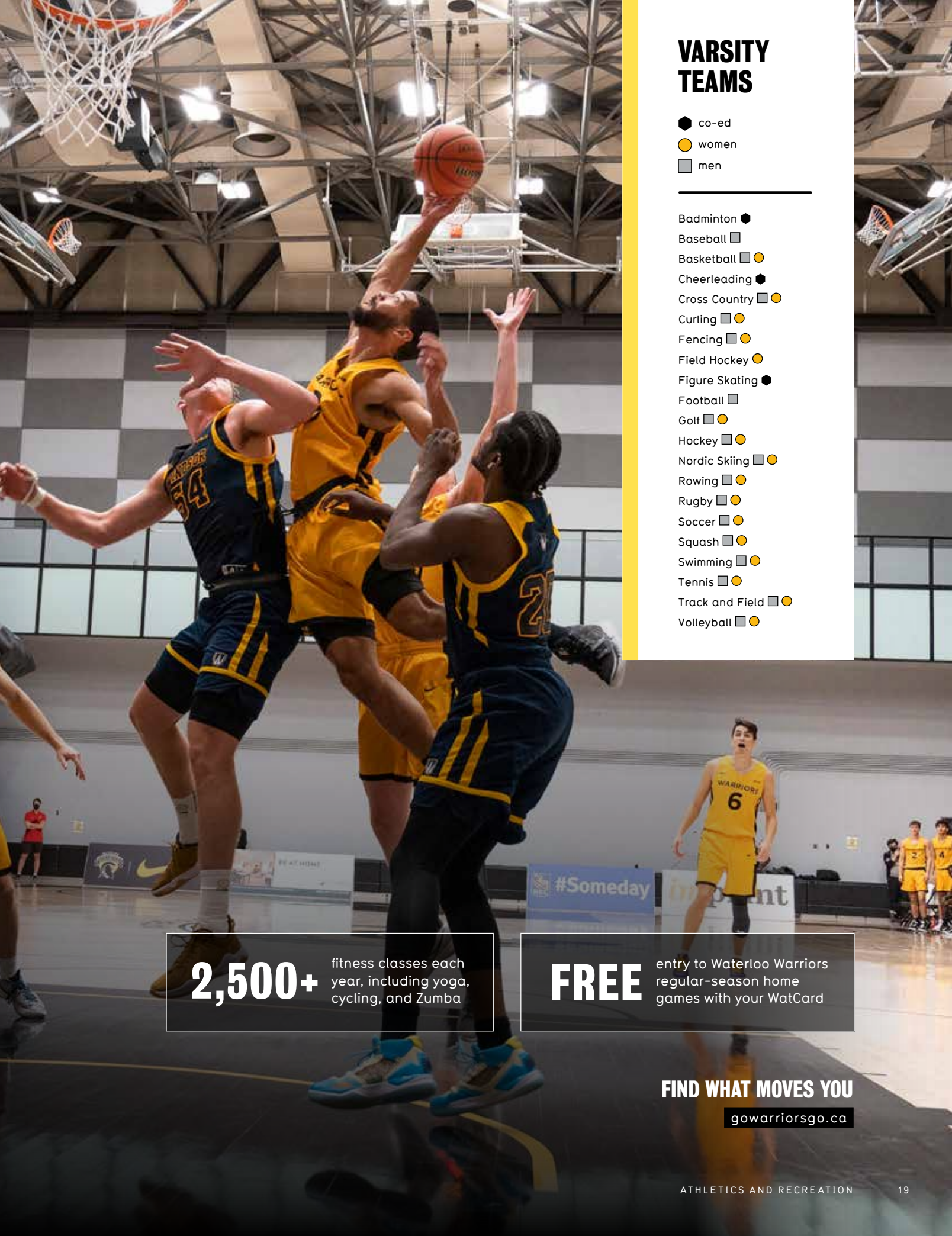
ATHLETICS FACILITIES

Stay active in our gyms, pool, ice rink, squash courts, studios, high-performance zone, playing fields, Warrior Field stadium, and 65,000-square-foot Field House. You'll get to enjoy the recently renovated Student Life Centre and Physical Activities Complex, which features a two-storey climbing wall, more lounge and studio space, and a fitness centre triple the size of the previous one.

VARSITY ATHLETICS

Whether you want to make the cut or cheer from the stands, you can be an important part of our 36 competitive varsity programs. In over 60 years of competition, the Warriors have brought home 103 provincial championships and eight national titles!

If you're interested in joining a varsity team, visit gowarriorsgo.ca/recruitment.



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 ▢ ◯

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

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

FIND WHAT MOVES YOU

gowarriorsgo.ca

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.

SAMPLE ROOM FLOOR PLANS*

SINGLE ROOM

DOUBLE ROOM

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 (Conrad Grebel, Renison, St. Jerome's University, and United). 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 59.

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

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

RACIAL ADVOCACY FOR INCLUSION, SOLIDARITY, AND EQUITY (RAISE)*
lifts students up by addressing the impacts of racism and xenophobia in our community.

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

WATERLOO INDIGENOUS STUDENT CENTRE (WISC)
supports a variety of Indigenous student needs, from cultural to academic. WISC connects Indigenous students to resources, each other, and the broader Indigenous 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

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

*provided by Waterloo Undergraduate Student Association (WUSA) **provided by Campus Wellness

PICTURE YOUR LIFE AT WATERLOO


1

2

3


4


5

DISCOVER MORE BY FOLLOWING US ON INSTAGRAM

UofWaterlooFuture

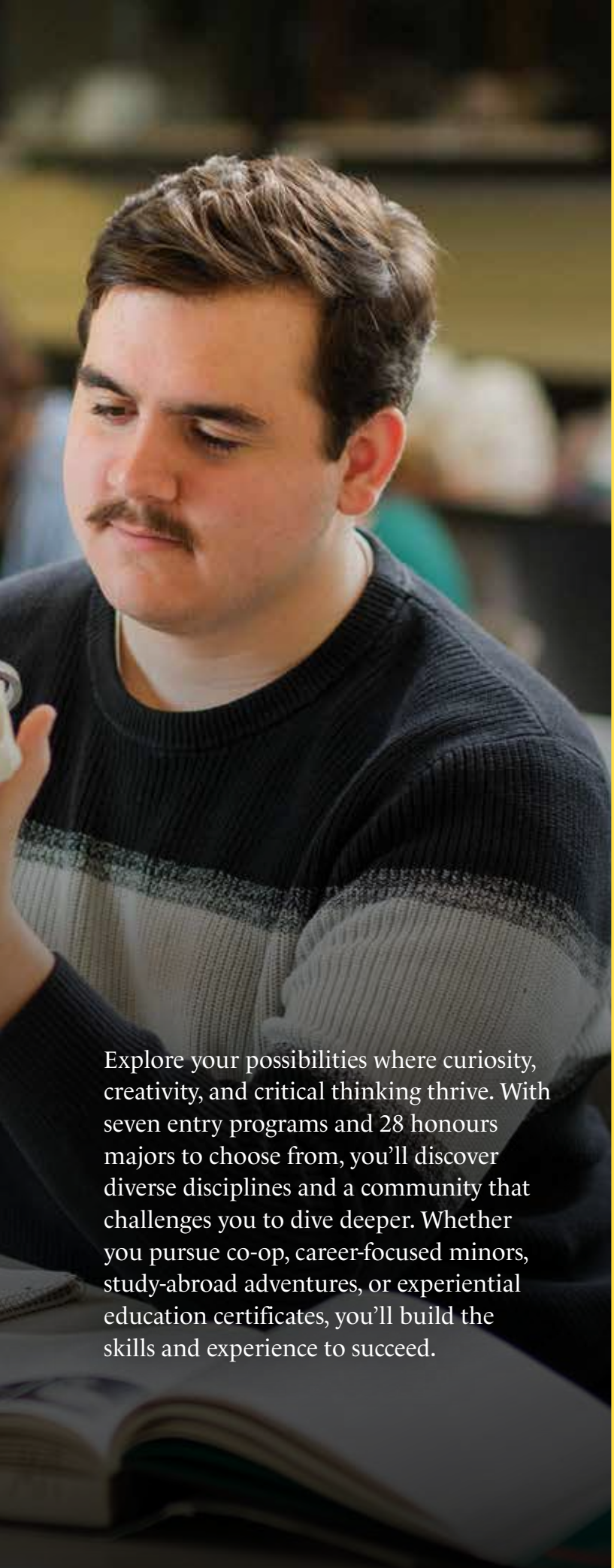
1. Waterloo Warriors celebrating
2. Convocation
3. Waterloo sign in the Arts Quad
4. Environment 3 living wall
5. Dana Porter Library
6. Peter Russell Rock Garden
7. William M. Tatham Centre for Co-operative and Experiential Education
8. Engineering 5
9. Warriors Women's Hockey
10. Waterloo Warriors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

"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

"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

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?

FACULTY OF ENGINEERING

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.

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

LARGEST student design centre in North America

uwaterloo.ca/future/engineering

"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

"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

"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

"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

"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

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

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

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

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

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

● 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

● 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 though 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.

● 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.

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

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

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

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

● Integrated Patient Focused Care; Professional Practice; 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

ONTARIO ADMISSION REQUIREMENTS

Admission averages depend on the number of applications we receive and the number of spaces available. The ranges listed below are based on previous years. You must have a minimum of six Grade 12 U or M level courses (excluding co-op) and the required course(s) for your program to be considered on the basis of your Ontario Secondary School Diploma. Required courses will be included in the calculation of your admission average.

NOTES

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

† Choose your major: see lists on pages 26-37. Some majors are competitive and require an application after first year.

Visit our website for the most up-to-date admissions information.

uwaterloo.ca/future/admissions

ARTS

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Accounting and Financial Management Mid-80s. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.	Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%)
Global Business and Digital Arts Low 80s.	Any Grade 12 U English (min. 75%)
Honours Arts† (Waterloo, St. Jerome's, Renison), **Honours Arts and Business**† (Waterloo, St. Jerome's, Renison). **Majors:** Anthropology; Classical Studies (2 majors); Communication Studies (2 majors); Economics; English (4 majors); Fine Arts (2 majors); French; Gender and Social Justice; History; Legal Studies; Liberal Studies; Medieval Studies; Music; Peace and Conflict Studies; Philosophy; Political Science; Psychology; Religious Studies; Sexuality, Marriage, and Family Studies; Social Development Studies; Sociology; Theatre and Performance. After applying to Honours Arts and Business, you may co-register through Renison. **Social Development Studies** (Renison) Low 80s.	Any Grade 12 U English (min. 70%)

CFM

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Computing and Financial Management Low to mid-90s. AIF required.	Any Grade 12 U English (min. 75%); Advanced Functions; Calculus and Vectors; one other Grade 12 U course

ENGINEERING

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS **AIF REQUIRED FOR ALL ENGINEERING PROGRAMS, EXCEPT ARCHITECTURE**	REQUIRED COURSES
Architecture Mid-80s. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.	English (ENG4U – min. 75%); Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Physics (min. 70%)
Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology Mid- to high 80s. **Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design** High 80s to low 90s. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.	Advanced Functions (min. 70%); Calculus and Vectors (min. 70%); Chemistry (min. 70%); English (ENG4U – min. 70%); Physics (min. 70%)

SOFTWARE ENGINEERING

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

ENVIRONMENT

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Climate and Environmental Change High 70s.	English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%); one of Chemistry or Physics
Environment and Business; **Environment, Resources and Sustainability**; **Geography and Environmental Management** High 70s.	Any Grade 12 U English (min. 70%)
Geography and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.	English (ENG4U – min. 70%); any Grade 12 U Mathematics (min. 70%)
Geomatics High 70s.	Any Grade 12 U English (min. 70%); any Grade 12 U Mathematics (min. 70%)
Knowledge Integration High 70s to low 80s.	Any Grade 12 U English (min. 70%); any Grade 12 U Science (min. 70%); any Grade 12 U Mathematics (min. 70%)
Planning Low 80s.	Any Grade 12 U English (min. 75%)

NOTES

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

VIEW ADMISSION REQUIREMENTS
for other systems of study
uwaterloo.ca/future/requirements

PROGRAMS REQUIRING PREVIOUS UNIVERSITY STUDY

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

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

Social Work Minimum 70% average in university studies. This program is offered through Renison University College. Three- or four-year Bachelor of Arts (or equivalent) from an accredited institution with a minimum of six units in the social sciences, including seven prerequisite courses from the Renison curriculum or equivalents. Required courses and other admission details are available online.

HEALTH

PROGRAM/MINIMUM ADMISSION AVERAGE/ ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Health Sciences Mid-80s regular, High 80s co-op.	Any Grade 12 U English (min. 70%); Biology (min. 70%); Chemistry (min. 70%); any Grade 12 U Mathematics (min. 70%)
Kinesiology Low 80s regular, Mid-80s co-op.	Any Grade 12 U English (min. 70%); any two of the following: Biology (min. 70%), Chemistry (min. 70%), or Physics (min. 70%); and one of the following: Advanced Functions (min. 70%) or Calculus and Vectors (min. 70%)
Public Health Low 80s regular, Mid-80s co-op.	Any Grade 12 U English (min. 75%); any Grade 12 U Mathematics (min. 70%)
Recreation and Leisure Studies† Low 80s. **Majors:** Recreation, Leadership, and Health; Sport and Recreation Management; Therapeutic Recreation.	Any Grade 12 U English (min. 70%)

MATHEMATICS

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS **AIF REQUIRED FOR ALL MATHEMATICS PROGRAMS** PARTICIPATION IN THE EUCLID AND CANADIAN SENIOR MATHEMATICS CONTESTS IS STRONGLY RECOMMENDED, INDIVIDUAL SELECTION MAY VARY	REQUIRED COURSES
Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Low to mid-90s.	Advanced Functions; Calculus and Vectors; any Grade 12 U English; one other Grade 12 U course
Business Administration (Laurier) and Mathematics (Waterloo) Double Degree Mid- to high 80s.	
Computer Science† Low to mid-90s. **Majors:** Computer Science, Data Science.	
Mathematics† Mid-80s. **Majors:** 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 Mid-80s. **Major:** Information Technology Management.	
Mathematics/Chartered Professional Accountancy Mid-80s.	
Mathematics/Financial Analysis and Risk Management Mid-80s.	

SCIENCE

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Biotechnology/Chartered Professional Accountancy Low to mid-80s.	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
Environmental Sciences Low 80s.	
Honours Science Low 80s.	
Life Sciences† Low 80s. **Majors:** Biochemistry, Biology, Biomedical Sciences, Psychology.	
Physical Sciences† Low 80s. **Majors:** Biological and Medical Physics, Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medicinal Chemistry, Physics, Physics and Astronomy.	
Science and Business Low 80s.	
Science and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.	

SFM

PROGRAM/MINIMUM ADMISSION AVERAGE/ADDITIONAL REQUIREMENTS	REQUIRED COURSES
Sustainability and Financial Management Mid-80s. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.	Any Grade 12 U English (min. 75%); Advanced Functions (min. 75%); Calculus and Vectors (min. 75%)

OUT-OF-PROVINCE ADMISSION REQUIREMENTS

uwaterloo.ca/future/admissions

NOTES

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

*Final grade at least 70%
**Final grade at least 75%
†Choose your major: see lists on pages 26-37. Some majors are competitive and require an application after first year.

PROGRAM/ADMISSION AVERAGE/ ADDITIONAL REQUIREMENTS	ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT	BRITISH COLUMBIA AND YUKON	MANITOBA	NEW BRUNSWICK
ARTS				
Accounting and Financial Management Mid-80s. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.	English Language Arts 30-1**; Mathematics 30-1**; Mathematics 31**	One of English Studies 12** or English First Peoples 12**; Pre-Calculus 12**; Calculus 12** or AP Calculus**	English 40S**; Pre-Calculus Mathematics 40S**; Calculus 45A**, 45S**, or AP Calculus**	English 121** or 122**; Pre-Calculus 120B**; Calculus 120**
Global Business and Digital Arts Low 80s.	English Language Arts 30-1**	One of English Studies 12** or English First Peoples 12**	English 40S**	English 121** or 122**
Honours Arts† (Waterloo, St. Jerome's, Renison), **Honours Arts and Business**† (Waterloo, St. Jerome's, Renison), **Social Development Studies** (Renison) Low 80s. After applying to Honours Arts and Business, you may co-register through Renison.	English Language Arts 30-1*	One of English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*
COMPUTING AND FINANCIAL MANAGEMENT				
Computing and Financial Management Low to mid-90s. AIF required.	Mathematics 30-1; Mathematics 31; English Language Arts 30-1**	One of English Studies 12** or English First Peoples 12**; Pre-Calculus 12; Calculus 12 or AP Calculus	Pre-Calculus Mathematics 40S; one of Calculus 45A, 45S, or AP Calculus; English 40S**	Pre-Calculus 120B; Calculus 120; English 121** or 122**
ENGINEERING – AIF required for all Engineering programs, except Architecture				
Architecture Mid-80s. Qualified applicants will be invited to complete an English précis-writing exercise and to submit a portfolio.	English Language Arts 30-1**; Mathematics 30-1*; Mathematics 31*; Physics 30*	One of English Studies 12** or English First Peoples 12**; Pre-Calculus 12*; Calculus 12* or AP Calculus*; Physics 12*	English 40S**; Pre-Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; Physics 40S*	English 121** or 122**; Pre-Calculus 120B*; Calculus 120*; Physics 121* or 122*
Architectural, Chemical, Civil, Environmental, Geological, Management, Nanotechnology Mid- to high 80s. **Biomedical, Computer, Electrical, Mechanical, Mechatronics, Systems Design** High 80s to low 90s. AIF required. Online video interview required for Faculty scholarships and strongly recommended for admission to all programs. Individual selection may vary.	Mathematics 30-1*; Mathematics 31*; Chemistry 30*; English Language Arts 30-1*; Physics 30*	One of English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; Chemistry 12*; Physics 12*	Pre-Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S*; English 40S*; Physics 40S*	Pre-Calculus 120B*; Calculus 120*; Chemistry 121* or 122*; English 121* or 122*; Physics 121* or 122*
SOFTWARE ENGINEERING – AIF required, experience developing well-structured modular programs required				
Software Engineering Low to mid-90s. AIF required. Experience developing well-structured modular programs required. Online video interview required for Faculty scholarships and strongly recommended for admission. Individual selection may vary.	Mathematics 30-1*; Mathematics 31*; Chemistry 30*; English Language Arts 30-1*; Physics 30*	One of English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; Chemistry 12*; Physics 12*	Pre-Calculus Mathematics 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S*; English 40S*; Physics 40S*	Pre-Calculus 120B*; Calculus 120*; Chemistry 121* or 122*; English 121* or 122*; Physics 121* or 122*

ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT High school diploma with five academic courses at the 30 or 31 level. Arrange to have your school send us your official transcripts showing completed and current courses. Physical Education 30 and Career and Technology Studies courses are not acceptable academic courses. For admission purposes, two three-credit 30-level academic courses may be considered equivalent to one five-credit 30-level academic course.

BRITISH COLUMBIA AND YUKON High school diploma with six courses at the Grade 12 academic level, including all required courses. Academic subjects do not include courses from the Applied Design, Skills, and Technologies (ADST) curriculum, with the exception of Economics 12 and Financial Accounting 12. While B.C. will automatically send us your marks electronically, they will not arrive in time for our admissions decisions. Applicants will receive instructions by email on how to submit unofficial marks.

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

NEW BRUNSWICK High school diploma with six academic courses at the Grade 12, 120, 121, or 122 level.

NEWFOUNDLAND AND LABRADOR High school diploma with six academic courses at the 3200 level.

NOVA SCOTIA High school diploma with five academic or advanced courses at the Grade 12 level.

PRINCE EDWARD ISLAND High school diploma with five academic or advanced courses at the 611 or 621 level.

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

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

INTERNATIONAL BACCALAUREATE (IB) Six total IB courses; at least three must be HL. Total scores exclude Diploma Points. Subjects required for admission to specific programs should be HL whenever possible. Where there are more than three prerequisite subjects, SL courses will be accepted. For programs listing HL or SL English A, HL English B with min. 5 will be accepted. For programs listing HL or SL Math: Analysis and Approaches, HL Applications and Interpretations will not be accepted unless stated otherwise. SL Applications and Interpretations will not be accepted for any program.
NOTES: HL = Higher Level; **SL** = Standard Level; **min. =** minimum IB final grade 1–7; **total =** overall grade totals, not including Diploma Points.

NEWFOUNDLAND AND LABRADOR	NOVA SCOTIA	PRINCE EDWARD ISLAND	QUEBEC (CEGEP)	SASKATCHEWAN	INTERNATIONAL BACCALAUREATE
English 3201**; one of Advanced Mathematics 3201** or 3200**; one of Mathematics 3208** or AP Calculus**	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12**; Calculus 12**	English 621A**; Mathematics 611B**; Mathematics 621B**	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**	English Language Arts A30** and B30**; Pre-Calculus 30**; Calculus 30** or AP Calculus**	HL or SL English A, min. 4, or HL English B, min. 5; Mathematics: Analysis and Approaches (HL recommended), min. 4. Total 28.
English 3201**	English 12 Academic** or English 12 African Heritage**	English 621A**	English 603** or 604**	English Language Arts A30** and B30**	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*	English Language Arts A30* and B30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
One of Advanced Mathematics 3201 or 3200; one of Mathematics 3208 or AP Calculus; English 3201**	Pre-Calculus 12; Calculus 12; English 12 Academic** or English 12 African Heritage**	Mathematics 611B; Mathematics 621B; English 621A**	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**	Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30** and B30**	HL or SL English A, min. 4; HL Mathematics: Analysis and Approaches, min. 6. Total 32.
English 3201**; one of Advanced Mathematics 3201* or 3200*; one of Mathematics 3208* or AP Calculus*; Physics 3204*	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12*; Calculus 12*; Physics 12 Academic*	English 621A**; Mathematics 611B*; Mathematics 621B*; Physics 621A*	English 603** or 604**; two of Linear Algebra*, Calculus I*, or Calculus II*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*	English Language Arts A30** and B30**; Pre-Calculus 30*; Calculus 30* or AP Calculus*; Physics 30*	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; HL or SL English A, min. 4. Total 32.
One of Advanced Mathematics 3201* or 3200*; one of Mathematics 3208* or AP Calculus*; Chemistry 3202*; English 3201*; Physics 3204*	Pre-Calculus 12*; Calculus 12*; Chemistry 12 Academic*; English 12 Academic* or English 12 African Heritage*; Physics 12 Academic*	Mathematics 611B*; Mathematics 621B*; Chemistry 611A* or 621A*; English 621A*; Physics 621A*	English 603* or 604*; two of Linear Algebra*, Calculus 1*, or Calculus 2*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*; Chemistry I*, or Chemistry II*	Pre-Calculus 30*; Calculus 30* or AP Calculus*; Chemistry 30*; English Language Arts A30* and B30*; Physics 30*	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry and English A, min. 4 in each; one other HL or SL course, min. 4. Total 32. 6s and 7s recommended.
One of Advanced Mathematics 3201* or 3200*; one of Mathematics 3208* or AP Calculus*; Chemistry 3202*; English 3201*; Physics 3204*	Pre-Calculus 12*; Calculus 12*; Chemistry 12 Academic*; English 12 Academic* or English 12 African Heritage*; Physics 12 Academic*	Mathematics 611B*; Mathematics 621B*; Chemistry 611A* or 621A*; English 621A*; Physics 621A*	English 603* or 604*; two of Linear Algebra*, Calculus I*, or Calculus II*; at least one of Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*; Chemistry I*, or Chemistry II*	Pre-Calculus 30*; Calculus 30* or AP Calculus*; Chemistry 30*; English Language Arts A30* and B30*; Physics 30*	Mathematics: Analysis and Approaches and Physics (HL recommended), min. 4 in each; Chemistry and English A, min. 4 in each; one other HL or SL course, min. 4. Total 32. 6s and 7s recommended.

OUT-OF-PROVINCE ADMISSION REQUIREMENTS CONTINUED

PROGRAM/ADMISSION AVERAGE/ ADDITIONAL REQUIREMENTS	ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT	BRITISH COLUMBIA AND YUKON	MANITOBA	NEW BRUNSWICK
For additional province-specific information, refer to the notes on page 51. Complete admission requirements, recommendations, and documents are available online.				
ENVIRONMENT				
Climate and Environmental Change High 70s.	English Language Arts 30-1*; one of Math 30-1*, Math 31*, or Math 30-2*; one of Chemistry 30 or Physics 30	One of English Studies 12* or English First Peoples 12*; one of Grade 12 Mathematics* or AP Calculus*; one of Chemistry 12 or Physics 12	English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, 45S*, or AP Calculus*; Chemistry 40S or Physics 40S	English 121* or English 122*; Pre-Calculus 120B* or Calculus 120*; one of Chemistry 121 or 122 or Physics 121 or 122
Environment and Business; Environment, Resources and Sustainability; Geography and Environmental Management High 70s.	English Language Arts 30-1*	One of English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*
Geography and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.	English Language Arts 30-1*; one of Math 30-1*, Math 31*, or Math 30-2*	One of English Studies 12* or English First Peoples 12*; one Grade 12 Mathematics* or AP Calculus*	English 40S*; one of Pre-Calculus Math 40S*, Calculus 45A*, 45S*, or AP Calculus*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*
Geomatics High 70s.	English Language Arts 30-1*; one of Math 30-1*, Math 31*, or Math 30-2*	One of English Studies 12* or English First Peoples 12*; one Grade 12 Mathematics* or AP Calculus*	English 40S*; one of Pre-Calculus Math 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*
Knowledge Integration High 70s to low 80s.	English Language Arts 30-1*; one of Math 30-1*, Math 31*, or Math 30-2*; one Level 30 or 31 Science*	One of English Studies 12* or English First Peoples 12*; one Grade 12 Mathematics*; one Grade 12 Science*	English 40S*; one Math* at the 40 level or higher; one Science* at the 40 level or higher	English 121* or 122*; Pre-Calculus 120B* or Calculus 120*; one Science* at the 121 or 122 level
Planning Low 80s.	English Language Arts 30-1**	One of English Studies 12** or English First Peoples 12**	English 40S**	English 121** or 122**
HEALTH				
Health Sciences Mid-80s regular, High 80s co-op.	English Language Arts 30-1*; one of Math 30-1*, Math 31*, or Math 30-2*; Biology 30*; Chemistry 30*	One of English Studies 12* or English First Peoples 12*; Anatomy and Physiology 12*; Chemistry 12*; one Grade 12 Mathematics* or AP Calculus*	Biology 40S*; Chemistry 40S*; English 40S*; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*	Biology 121* or 122*; Chemistry 121* or 122*; English 121* or 122*; Pre-Calculus 120B* or Calculus 120*
Kinesiology Low 80s regular, Mid-80s co-op.	English Language Arts 30-1*; Math 30-1* or Math 31*; two of Biology 30*, Chemistry 30*, or Physics 30*	One of English Studies 12* or English First Peoples 12*; one of Pre-Calculus 12*, Calculus 12*, or AP Calculus*; two of Anatomy and Physiology 12*, Chemistry 12*, or Physics 12*	One of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*; two of Biology 40S*, Chemistry 40S*, or Physics 40S*; English 40S*	One of Pre-Calculus 120B* or Calculus 120*; two of Biology 121* or 122*, Chemistry 121* or 122*, or Physics 121* or 122*; English 121* or 122*
Public Health Low 80s regular, Mid-80s co-op.	English Language Arts 30-1**; one of Math 30-1*, Math 31*, or Math 30-2*	One of English Studies 12** or English First Peoples 12**; Grade 12 Mathematics* or AP Calculus*	English 40S**; one of Pre-Calculus Mathematics 40S*, Calculus 45A*, Calculus 45S*, or AP Calculus*	English 121** or 122**; Pre-Calculus 120B* or Calculus 120*
Recreation and Leisure Studies† Low 80s.	English Language Arts 30-1*	One of English Studies 12* or English First Peoples 12*	English 40S*	English 121* or 122*

NEWFOUNDLAND AND LABRADOR	NOVA SCOTIA	PRINCE EDWARD ISLAND	QUEBEC (CEGEP)	SASKATCHEWAN	INTERNATIONAL BACCALAUREATE
English 3201*; one of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*; Chemistry 3202 or Physics 3204	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*; one of Chemistry 12 Academic or Physics 12 Academic	English 621A*; one of Mathematics 611B* or Mathematics 621B*; one of Chemistry 611A, 621A, or Physics 621A	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; one of Chemistry I or II, Mechanics, Electricity & Magnetism, or Waves, Optics & Modern Physics	English Language Arts A30* and B30*; one of Pre-Calculus 30*, Calculus 30*, or AP Calculus*; one of Chemistry 30 or Physics 30	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4; Chemistry or Physics. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*	English Language Arts A30* and B30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*; one of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A*; Mathematics 611B* or 621B*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*	English Language Arts A30* and B30*; one of Foundations of Math 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4; strongly recommended: one SL course in Physical or Environmental Science. Total 27.
English 3201*; one of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A*; Mathematics 611B* or 621B*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*	English Language Arts A30* and B30*; one of Foundations of Math 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4. Total 27.
English 3201*; one Math* at the 3 level; one Science* at the 3 level	English 12 Academic* or English 12 African Heritage*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*; one Grade 12 Academic Science*	English 621A*; Mathematics 611B* or 621B*; one Science* at the 611A or 621A level	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; one of Biology I* or II*, Chemistry I* or II*, Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*	English Language Arts A30* and B30*; one Math* at the 30 level; one Science* at the 30 level	HL or SL English A, min. 4, or HL English B, min. 5; HL or SL Mathematics: Analysis and Approaches or HL Applications and Interpretation, min. 4; one HL or SL Science, min. 4. Total 27.
English 3201**	English 12 Academic** or English 12 African Heritage**	English 621A**	English 603** or 604**	English Language Arts A30** and B30**	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
Biology 3201*; Chemistry 3202*; English 3201*; one of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic* or English 12 African Heritage*; Biology 12 Academic*; Chemistry 12 Academic*; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	Biology 621A*; Chemistry 611A* or 621A*; English 621A*; Mathematics 611B* or 621B*	Biology I* or II*; Chemistry I* or II*; English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*	Biology 30*; Chemistry 30*; English Language Arts A30* and B30*; one of Foundations of Mathematics 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4; HL or SL Chemistry, min. 4; HL or SL Biology, min. 4; HL or SL English A, min. 4, or HL English B, min 5. Total 28.
One of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*; two of Biology 3201*, Chemistry 3202*, or Physics 3204*; English 3201*	English 12 Academic* or English 12 African Heritage*; one of Pre-Calculus 12* or Calculus 12*; two of Biology 12 Academic*, Chemistry 12 Academic*, or Physics 12 Academic*	One of Mathematics 611B* or 621B*; two of Biology 621A*, Chemistry 611A* or 621A*, or Physics 621A*; English 621A*	English 603* or 604*; one of Linear Algebra*, Calculus I*, or Calculus II*; two of Biology I* or II*, Chemistry I* or II*, Mechanics*, Electricity & Magnetism*, or Waves, Optics & Modern Physics*	One of Pre-Calculus 30*, Calculus 30*, or AP Calculus*; two of Biology 30*, Chemistry 30*, or Physics 30*; English Language Arts A30* and B30*	HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4; two of HL or SL Biology, HL or SL Physics, or HL or SL Chemistry, min. 4 in each; HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201**; one of Advanced Mathematics 3201* or 3200*, Mathematics 3208*, or AP Calculus*	English 12 Academic** or English 12 African Heritage**; one of Mathematics 12*, Pre-Calculus 12*, or Calculus 12*	English 621A**; Mathematics 611B* or 621B*	English 603** or 604**; one of Linear Algebra*, Calculus I*, or Calculus II*	English Language Arts A30** and B30**; one of Foundations of Math 30*, Pre-Calculus 30*, Calculus 30*, or AP Calculus*	HL or SL Mathematics: Analysis and Approaches, min. 4, or HL Applications and Interpretation, min. 4; HL or SL English A, min. 4, or HL English B, min. 5. Total 27.
English 3201*	English 12 Academic* or English 12 African Heritage*	English 621A*	English 603* or 604*	English Language Arts A30* and B30*	HL or SL English A, min. 4, or HL English B, min. 5. Total 27.

OUT-OF-PROVINCE ADMISSION REQUIREMENTS CONTINUED

PROGRAM/ADMISSION AVERAGE/ ADDITIONAL REQUIREMENTS	ALBERTA, NORTHWEST TERRITORIES, AND NUNAVUT	BRITISH COLUMBIA AND YUKON	MANITOBA	NEW BRUNSWICK
For additional province-specific information, refer to the notes on page 51. Complete admission requirements, recommendations, and documents are available online.				
MATHEMATICS – AIF required, participation in the Euclid and Canadian Senior Mathematics Contests is strongly recommended				
Business Administration (Laurier) and Computer Science (Waterloo) Double Degree Low to mid-90s. **Business Administration (Laurier) and Mathematics (Waterloo) Double Degree** Mid- to high 80s. **Mathematics/ Chartered Professional Accountancy** Mid- to high 80s. AIF required. Individual selection may vary.	Math 30-1; Math 31; English Language Arts 30-1	One of English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	Pre-Calculus Math 40S; one of Calculus 45A, 45S, or AP Calculus; English 40S	Pre-Calculus 120B; Calculus 120; English 121 or 122
Mathematics†, Mathematics/Business Administration†, Mathematics/Financial Analysis and Risk Management Mid-80s. AIF required. Individual selection may vary.	Math 30-1; Math 31; English Language Arts 30-1	One of English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	Pre-Calculus Math 40S; one of Calculus 45A, 45S, or AP Calculus; English 40S	Pre-Calculus 120B; Calculus 120; English 121 or 122
Computer Science† Low to mid-90s. AIF required. Individual selection may vary.	Math 30-1; Math 31; English Language Arts 30-1	One of English Studies 12 or English First Peoples 12; Pre-Calculus 12; Calculus 12 or AP Calculus	Pre-Calculus Math 40S; one of Calculus 45A, 45S, or AP Calculus; English 40S	Pre-Calculus 120B; Calculus 120; English 121 or 122
SCIENCE				
Biotechnology/Chartered Professional Accountancy Low to mid-80s. **Environmental Sciences, Honours Science, Life Sciences†, Physical Sciences†, Science and Business** Low 80s.	English Language Arts 30-1*; Math 30-1*; Math 31*; two of Biology 30, Chemistry 30, or Physics 30	One of English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; two of Anatomy and Physiology 12, Chemistry 12, Geology 12, Physics 12, Environmental Science 12, or either Statistics 12 or Foundations of Math 12	English 40S*; Pre-Calculus Math 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; two of Biology 40S, Chemistry 40S, or Physics 40S	English 121* or 122*; Pre-Calculus 120B*; Calculus 120*; two of Biology 121 or 122, Chemistry 121 or 122, Physics 121 or 122, or Foundations of Math 120
Science and Aviation Mid-80s. Program briefing session and Transport Canada Category 1 Medical Certification required. For Permanent Residents and international students, the Aviation Language Proficiency Test (ALPT) is also required.	English Language Arts 30-1*; Math 30-1*; Math 31*; two of Biology 30, Chemistry 30, or Physics 30	One of English Studies 12* or English First Peoples 12*; Pre-Calculus 12*; Calculus 12* or AP Calculus*; two of Anatomy and Physiology 12, Chemistry 12, Geology 12, Physics 12, Environmental Science 12, or either Statistics 12 or Foundations of Math 12	English 40S*; Pre-Calculus Math 40S*; one of Calculus 45A*, 45S*, or AP Calculus*; two of Biology 40S, Chemistry 40S, or Physics 40S	English 121* or 122*; Pre-Calculus 120B*; Calculus 120*; two of Biology 121 or 122, Chemistry 121 or 122, Physics 121 or 122, or Foundations of Math 120
SUSTAINABILITY AND FINANCIAL MANAGEMENT				
Sustainability and Financial Management Mid-80s. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required.	English Language Arts 30-1**; Mathematics 30-1**; Mathematics 31**	One of English Studies 12** or English First Peoples 12**; Pre-Calculus 12**; Calculus 12** or AP Calculus**	English 40S**; Pre-Calculus Mathematics 40S**; Calculus 45A**, 45S** or AP Calculus**	English 121** or 122**; Pre-Calculus 120B**; Calculus 120**

NEWFOUNDLAND AND LABRADOR	NOVA SCOTIA	PRINCE EDWARD ISLAND	QUEBEC (CEGEP)	SASKATCHEWAN	INTERNATIONAL BACCALAUREATE
One of Advanced Mathematics 3201 or 3200; one of Mathematics 3208 or AP Calculus; English 3201	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	Math 611B; Math 621B; English 621A	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II	Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.
One of Advanced Mathematics 3201 or 3200; one of Mathematics 3208 or AP Calculus; English 3201	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	Math 611B; Math 621B; English 621A	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II	Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 30.
One of Advanced Mathematics 3201 or 3200; one of Mathematics 3208 or AP Calculus; English 3201	English 12 Academic or English 12 African Heritage; Pre-Calculus 12; Calculus 12	Math 611B; Math 621B; English 621A	English 603 or 604; two of Linear Algebra, Calculus I, or Calculus II	Pre-Calculus 30; Calculus 30 or AP Calculus; English Language Arts A30 and B30	HL Mathematics: Analysis and Approaches, min. 6; HL or SL English A. Total 32.
English 3201*; one of Advanced Mathematics 3201* or 3200*; one of Mathematics 3208* or AP Calculus*; two of Biology 3201, Chemistry 3202, Earth Systems 3209, or Physics 3204	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12*; Calculus 12*; two of Biology 12 Academic, Chemistry 12 Academic, Geology 12 Academic, or Physics 12 Academic	English 621A* or 611*; Math 621B*; Math 611B*; two of Biology 621A, Chemistry 611A or 621A, or Physics 621A	English 603* or 604*; two of Linear Algebra*, Calculus I*, or Calculus II*; two of Biology I or II, Chemistry I or II, Mechanics, Electricity & Magnetism, or Waves, Optics & Modern Physics	English Language Arts A30* and B30*; Pre-Calculus 30*; Calculus 30* or AP Calculus*; two of Biology 30, Chemistry 30, Foundations of Math 30, or Physics 30	HL or SL Mathematics: Analysis and Approaches, min. 4; HL or SL English A, min. 4, or HL English B, min. 5; two of Biology, Chemistry, or Physics. Total 27.
English 3201*; one of Advanced Mathematics 3201* or 3200*; one of Mathematics 3208* or AP Calculus*; two of Biology 3201, Chemistry 3202, Earth Systems 3209, or Physics 3204	English 12 Academic* or English 12 African Heritage*; Pre-Calculus 12*; Calculus 12*; two of Biology 12 Academic, Chemistry 12 Academic, Geology 12 Academic, or Physics 12 Academic	English 621A* or 611*; Math 621B*; Math 611B*; two of Biology 621A, Chemistry 611A or 621A, or Physics 621A	English 603* or 604*; two of Linear Algebra*, Calculus I*, or Calculus II*; two of Biology I or II, Chemistry I or II, Mechanics, Electricity & Magnetism, or Waves, Optics & Modern Physics	English Language Arts A30* and B30*; Pre-Calculus 30*; Calculus 30* or AP Calculus*; two of Biology 30, Chemistry 30, Foundations of Math 30, or Physics 30	HL or SL Mathematics: Analysis and Approaches, min. 4; HL or SL English A, min. 4, or HL English B, min. 5; two of Biology, Chemistry, or Physics. Total 27.
English 3201**; one of Advanced Mathematics 3201** or 3200**; one of Mathematics 3208** or AP Calculus**	English 12 Academic** or English 12 African Heritage**; Pre-Calculus 12**; Calculus 12**	English 621A**; Mathematics 611B**; Mathematics 621B**	English 603** or 604**; two of Linear Algebra**, Calculus I**, or Calculus II**	English Language Arts A30** and B30**; Pre-Calculus 30**; Calculus 30** or AP Calculus**	HL or SL English A, min. 4, or HL English B, min. 5; HL (recommended) or SL Mathematics: Analysis and Approaches, min. 4. Total 28.

APPLY TO WATERLOO

Let's get started.

uwaterloo.ca/future/apply

Your first stop is the Ontario Universities' Application Centre (OUAC) website: **ouac.on.ca**. If you're currently studying full-time at an Ontario high school, your school will automatically send us your grades.

If you're studying in an educational system outside of the Ontario curriculum, make arrangements to have your high school send us your transcripts. All of your official documents, including transcripts and English language test results, must be sent directly from the issuing institution or testing authority.

uwaterloo.ca/future/documents

IMPORTANT FALL 2025 APPLICATION DEADLINES

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**.

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

Q&A

WHAT'S AN ADMISSION INFORMATION FORM (AIF)?

The AIF 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

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

APPLICATION CHECKLIST

Need help planning for your future at Waterloo? Use this checklist and complete each step by the deadline – you'll be a member of the Warrior community in no time! If you have questions, flip to the panel at the back of this brochure to find a list of key contacts.

1. CHOOSE YOUR PROGRAM

Read through the program descriptions on pages 40-47. Explore even more online.

uwaterloo.ca/future/programs

APPLICATION TIP: If you're interested in a program where co-op is available and you're unsure if you should apply to the regular system of study or co-op, we encourage you to apply to co-op. It's easier to drop co-op if you decide it's not for you than join the co-op program later.

2. REVIEW THE REQUIREMENTS

Refer to the admission charts on pages 48-55 and highlight what the admission requirements are for each program that interests you.

3. APPLY ONLINE

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

ouac.on.ca

4. LOG IN TO YOUR WATERLOO ACCOUNT

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

5. SEND US YOUR DOCUMENTS

In addition to your official transcripts, we may require other documentation (e.g., proof of English language instruction). See page 56 for more information.

6. COMPLETE YOUR ADMISSION INFORMATION FORM

Some programs may require an interview, portfolio, or other elements in addition to your Admission Information Form (AIF). Check the admission charts on pages 48-55 for details. The AIF can seem a little daunting. What to say? Where to begin? Here are five tips for writing the best AIF.

- ☐ Don't overthink your answers. Go with your gut when responding to the questions.
- ☐ Answer the question that's asked.
- ☐ Be honest. Honesty and open communication are key values at Waterloo and are an important part of our application process.
- ☐ Don't write what you think admissions officers want to hear! They read thousands of AIFs each year and can tell when students aren't being genuine. Take the time to make your response authentic.
- ☐ Proofread your work. Make a great impression on our admissions committees with an error-free AIF.

7. CONTINUE TO GET TO KNOW US

To help pass the time, check out tips from Waterloo students about applying for scholarships, making friends at university, and more!

uwaterloo.ca/future/tips

TUITION AND SCHOLARSHIPS

Hard earned, well spent.

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

uwaterloo.ca/future/financing

ENTRANCE SCHOLARSHIPS AND BURSARIES

uwaterloo.ca/future/scholarships

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

$1,000
MERIT SCHOLARSHIP
85–89.9% admission average

$2,000
PRESIDENT'S SCHOLARSHIP
90–94.9% admission average

$1,000–$5,000
ENTRANCE BURSARIES (ONTARIO STUDENTS ONLY)
Awarded based on financial need

up to
$5,000*
PRESIDENT'S SCHOLARSHIP OF DISTINCTION
95%+ admission average

*$2,000 awarded in first year, plus up to $3,000 in upper years.

TUITION FEES

FOR TWO ACADEMIC TERMS (CANADIAN DOLLARS)

PROGRAM/FACULTY	DOMESTIC ONTARIO	DOMESTIC OUT OF PROVINCE	INTERNATIONAL (STUDY PERMIT)
Accounting and Financial Management*, Sustainability and Financial Management*	$9,000	$9,000	$57,000
Architecture	$13,000	$14,000	$73,000
Biotechnology/Chartered Professional Accountancy*	$9,000	$9,000	$52,000
Business Administration (Laurier) **and Mathematics** (Waterloo) **Double Degree**	$14,000	$14,000	$62,000
Computer Science, Business Administration (Laurier) **and Computer Science** (Waterloo) **Double Degree**	$17,000	$18,000	$73,000
Computing and Financial Management*	$10,000	$11,000	$62,000
Faculty of Arts	$9,000	$9,000	$57,000
Faculty of Engineering, Software Engineering	$18,000	$19,000	$73,000
Faculty of Environment	$9,000	$9,000	$50,000
Faculty of Health	$9,000	$9,000	$50,000
Faculty of Science	$9,000	$9,000	$52,000
Global Business and Digital Arts	$14,000	$15,000	$55,000
Mathematics, Mathematics/ Business Administration	$9,000	$9,000	$60,000
Mathematics/Chartered Professional Accountancy*	$9,000	$9,000	$60,000
Mathematics/Financial Analysis and Risk Management	$12,000	$13,000	$62,000

Notes: Estimated amounts listed include incidental fees. These are rounded numbers. Domestic out-of-province tuition is approximately 5% higher than domestic Ontario tuition. 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. Tuition will be waived for validated Indigenous students who are members of the Mississaugas of the Credit First Nation or Six Nations of the Grand River. Learn more: **uwaterloo.ca/future/tuition-waiver**.

*Tuition is significantly higher in your upper years.

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.

EARN WHILE YOU LEARN

Through co-op you can earn

$9,600–$22,500

per four-month work term

There are hundreds of part-time jobs on and off campus, and our work-study program allows you to earn up to **$2,500** per school term

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.

35,700+
undergraduate students; 18% international

3 SATELLITE CAMPUSES
in Cambridge, Kitchener, and Stratford

DISCOVER OUR UNIVERSITY COLLEGES

Conrad Grebel, Renison, St. Jerome's University, and United are small, tight-knit communities that offer residence and academic programs – all within a two- to 10-minute walk from main campus and transit.

uwaterloo.ca/future/colleges

BUILD YOUR COMMUNITY

› Form close connections with your classmates – classes are often capped at 50 or fewer students
› College-wide dinners
› Movie nights
› Game rooms

ALL-IN-ONE AMENITIES

› Quiet study spaces
› Classrooms
› Student services
› Outdoor green spaces
› All-inclusive meal plans with options for every type of foodie

BUILDING LEGEND

- SS STUDENT SERVICES
- RES RESIDENCES
- UNIVERSITY COLLEGES: CONRAD GREBEL (CGR), RENISON (REN), ST. JEROME'S UNIVERSITY (SJU), UNITED (UTD)
- ARTS ARTS
- ENG ENGINEERING
- ENV ENVIRONMENT
- HLTH HEALTH
- MATH MATHEMATICS
- SCI SCIENCE
- COMING SOON: INDIGENOUS GATHERING SPACE

CAMPUS MAP


COLUMBIA STREET WEST
COLUMBIA STREET WEST
HAGEY BOULEVARD
RING ROAD
RING ROAD
RING ROAD
RING ROAD
RING ROAD
WILLIAM TUTTE WAY
PHILLIP STREET
UNIVERSITY AVENUE WEST
UNIVERSITY AVENUE WEST
SEAGRAM DRIVE
SEAGRAM DRIVE
TRANSIT HUB
VISITORS CENTRE
CAMPUS TOURS
SS
HLTH
ENG
MATH
SCI
ARTS
ENV
RES
SJU

IMPORTANT CONTACTS

GENERAL QUESTIONS?

519-888-4567, ext. 43614

askus@uwaterloo.ca

QUESTIONS ABOUT APPLYING?

519-888-4567, ext. 43106

myapplication@uwaterloo.ca

PROGRAM-RELATED QUESTIONS?

Faculty of Arts

arts@uwaterloo.ca

Faculty of Engineering

enginfo@uwaterloo.ca

Faculty of Environment

envinfo@uwaterloo.ca

Faculty of Health

health@uwaterloo.ca

Faculty of Mathematics

mathinfo@uwaterloo.ca

Faculty of Science

science@uwaterloo.ca

QUESTIONS ABOUT UNIVERSITY COLLEGES?

Conrad Grebel

grebel@uwaterloo.ca

Renison

renison@uwaterloo.ca

St. Jerome's University

sjuoutreach@uwaterloo.ca

United

unitedcollege@uwaterloo.ca

OTHER WATERLOO CONTACTS

_____

_____

_____

_____

TAKE THE NEXT STEP

COME VISIT US

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

JOIN OUR MAILING LIST

Get tips and advice from current Waterloo students, invites to events, and more!

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

@UofWaterlooFuture ExperienceWaterloo

DESIGN CREATIVE STUDIO, UNIVERSITY OF WATERLOO **EDITORIAL** MARKETING & UNDERGRADUATE RECRUITMENT, UNIVERSITY OF WATERLOO PLEASE KEEP, SHARE OR RECYCLE FP2861