

**DISCOVER
YOUR
STORY AT
WATERLOO**

INTERNATIONAL ADMISSIONS 2023

**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

| | |
|------------------------|----|
| WHY WATERLOO | 2 |
| THE CITY | 4 |
| CO-OP | 6 |
| CREATOR COMMUNITY | 10 |
| CAREER SUCCESS | 12 |
| FIRST-YEAR YOU | 14 |
| STUDENT LIFE | 16 |
| START STRONG | 18 |
| RESIDENCE LIFE | 20 |
| CARE AND SUPPORT | 22 |
| CAMPUS | 24 |
| BUSINESS AT WATERLOO | 26 |
| WATERLOO FACULTIES | 28 |
| PROGRAM DETAILS | 40 |
| ADMISSION REQUIREMENTS | 48 |
| HOW TO APPLY | 54 |
| FINANCES | 55 |
| CAMPUS MAP | 56 |

MORE TO EXPLORE

Meet us online for more tips and stories.

 [@UofWaterloo](https://www.instagram.com/UofWaterloo)

 [experiencewaterloo](https://www.youtube.com/experiencewaterloo)

 uwaterloo.ca/future-students

WHY WATERLOO

From artificial intelligence to sustainability to social progress, the future is full of possibility – and uncertainty. As a Waterloo graduate, you're 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 29
out of 30 years
(*Maclean's University
Rankings*)

FOUNDED IN 1957

with engineering and co-operative
education as cornerstones



#1 COMPREHENSIVE RESEARCH UNIVERSITY

in Canada (Research Infosource, 2021)

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 known as Canada's innovation 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

THE CITY

500+ TECH STARTUPS

working on solutions in fintech, autotech, robotics, automation, artificial intelligence, and more (*Waterloo Region Economic Development Corporation, 2021*)

610,000+

people call the Region of Waterloo home

CITY OF DREAMERS

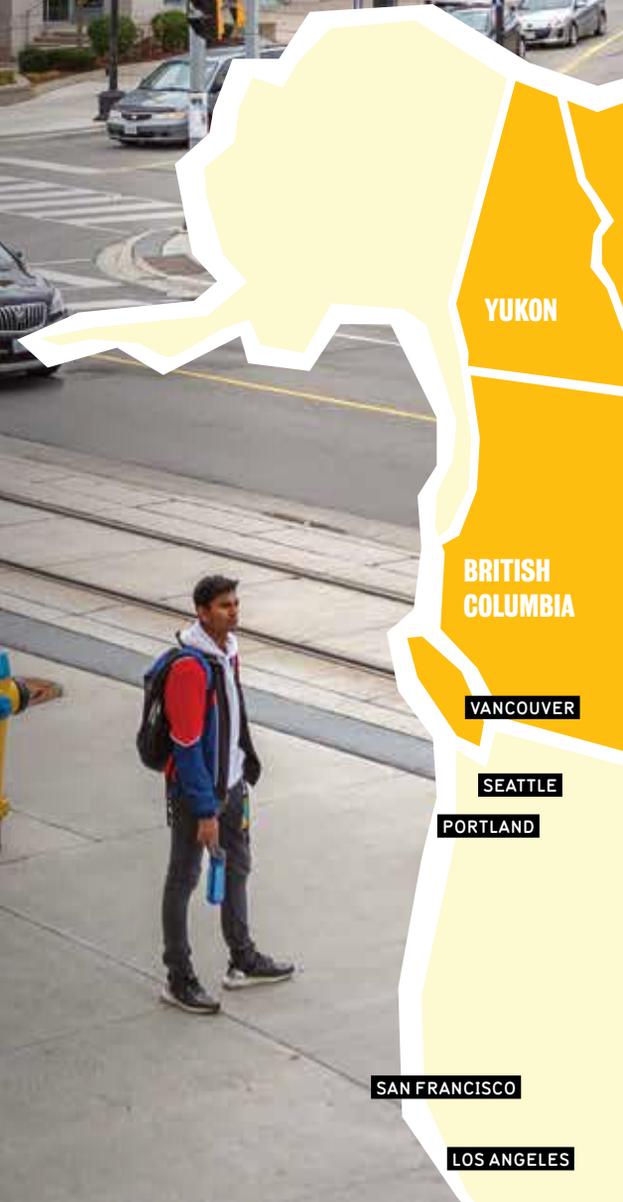
A PLACE TO ROAM AND FEEL AT HOME

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.

FOR AN INSIDER'S LOOK AT WATERLOO CHECK OUT:

#KWAwsome

Uptown Waterloo restaurants, shops, cafés, music, and clubs are a quick walk or bus ride from campus.





BALANCE WORK WITH PLAY

Need a break from the books? Warriors refuel with fun! Attend any of Waterloo'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 Waterloo Region's cities – Waterloo, Kitchener, and Cambridge. You can also get around by bikeshare, carshare, 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

CO-OP

YOUR CAREER STARTS NOW

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



7,500+ co-op employers in more than 60 countries

\$284M REPORTED EARNINGS
by Waterloo co-op students in 2021-2022

#1 IN CANADA FOR GRADUATE EMPLOYMENT RATE

and #2 in Canada for employer-student connections
(*QS Graduate Employability Rankings, 2022*)

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:

JONATHAN, HONOURS ARTS

Political Science major

“I gained quite a lot of confidence in working with others, working to develop and think about smart policy and think about the many considerations that take place as part of everyday political life.”

RUPA, COMPUTER ENGINEERING

“I think innovation is crucial, it’s not something that’s inherent, it’s developed. Like any other skill, it requires time and practice, and co-op offers exactly that. It’s unique because co-op unlocks your own creative potential.”

BRAD, PLANNING

“It’s a really great place to grow and [co-op] empowers you to take on new skills and sometimes things you have no idea how to do.”

EMILY, HEALTH SCIENCES

“I never expected to be able to write papers and do these things that many doctors and researchers are doing. As an undergraduate I think it’s incredible, but also something I would have never imagined.”

RYAN, MATHEMATICS

Actuarial Science major

“Through the co-op program you can figure out what you want to do, what you don’t want to do, and maybe confirm some inklings that you had coming into the program about what you thought that you would like.”

OMAR, LIFE SCIENCES

Biology major

“I really got to explore every facet of research during my co-op term there, and it spans from government clinical trials to even starting up some of my own smaller research projects and see them to the end.”

CO-OP

STACK YOUR RÉSUMÉ WITH REAL-WORLD SKILLS

With access to North America's largest selection of co-op jobs, 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 – WATPD

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

GLOBAL EXPERIENCE CERTIFICATE

Expand your worldview and knowledge of global issues by earning a Global Experience Certificate.

EXCHANGE AND STUDY ABROAD

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

STUDENT LEADERSHIP PROGRAM

Explore and enhance your leadership abilities as you earn a Certificate in Leadership Development.



96%

of employed co-op grads find jobs related to skills gained at Waterloo within six months of graduation (OUGS survey, 2014-2018 graduates)

84%

of Waterloo co-op grads earn \$50,000+ two years after graduation compared to 50 per cent of all Ontario grads (OUGS survey, 2018 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 student advisors

ON THE JOB

- > 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

CREATOR COMMUNITY

Welcome to a place where good ideas grow into game-changing solutions. If you're brewing up something big, we've got the creator community and entrepreneurial ecosystem to bring it to life.

FROM YOUR MIND AND INTO THE WORLD

SPARK YOUR CREATIVITY

You bring the passion and determination. We bring the resources, mentorship, and financial support you need to contribute something new and meaningful to the world.

- › **VELOCITY** is Canada's most productive early-stage startup incubator that helps founders scale globally.
- › **VELOCITY EXPERIENTIAL INNOVATION HUB** offers resources, programs, and spaces to help foster and grow ambitious ideas.
- › **GREENHOUSE** provides resources and mentorship to help you drive social or environmental impact.
- › **GREBEL PEACE INCUBATOR** links startups to social innovation tools and mentorship.
- › **THE PROBLEM LAB** delivers problem analysis events, workshops, and competitions for entrepreneurs.
- › **THE ZERO EXPERIENCE** offers workshops to help you innovate, build problem-solving tools, and discover how to make your impact.
- › **ZERO WORK** teaches you how to get a job and how to start building your ideal career.

CREATOR-OWNED

intellectual property policy means your great ideas belong to you



#1

in Canada for producing venture capital-backed entrepreneurs
(PitchBook's University Rankings, 2021)

FIVE WAYS TO FUEL YOUR CREATIVITY

Whether you want an outlet for your ingenuity or the space to create cool stuff, opportunities to innovate are as diverse as Waterloo.

- 1. EMBRACE YOUR INNER MAKER** using the high-end digital fabrication tools in the Architectural Engineering Maker Space (AEMS).
- 2. UNLEASH YOUR IMAGINATION** in our Fine Arts facilities, with equipment for ceramics, metal fabrication, painting, drawing, digital media, photography, printmaking, sculpture, woodworking, and more.
- 3. SHARE YOUR VOICE** through student-run publications, including Imprint, The Radicle (Environment), mathNEWS, The Iron Warrior (Engineering), Her Campus Waterloo, and more.
- 4. MOVE FROM IDEATION TO CREATION** with support from coaches, mentors, and workshops. You'll learn how to prepare for your first pitch and test the waters in one of our many pitch competitions.
- 5. BUILD YOUR BUSINESS FOR ACADEMIC CREDIT** by enrolling in specialized entrepreneurial courses and co-op programs at the Conrad School of Entrepreneurship and Business.

READY, SET, LAUNCH

Make your ideas happen at

uwaterloo.ca/future/creator

CAREER SUCCESS

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.

LEAVE YOUR LIMITS BEHIND

220,000+

alumni in 151 countries
graduated since 1957

8

former Waterloo students
named on the "Forbes 30
Under 30" list in 2021

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.

WHERE WILL YOU WIND UP?

As a Waterloo grad, you'll be joining more than 220,000 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.

HUNDREDS

of Waterloo alumni have made their mark by founding and leading companies, including Axonify, BlackBerry, Bluish, Four All Ice Cream, Hyivy Health, Lunaria Solutions, MedMe, Youth Climate Lab, and more!



RUPI KAUR (BA '15)

Honours Arts and Business
New York Times bestselling author and illustrator



DIANA CHIU (BSC '05, MBET '06)

Science and Business
Senior manager, business development
DuckDuckGo



JONATHAN LAFORCIC (BA '10)

Recreation and Business
Co-founder and director of operations
Elora Brewing Company

YOUR CAREER STARTS HERE

Discover a world of opportunity at

uwaterloo.ca/future/career-success

FIRST-YEAR YOU

DISCOVER WHERE YOU'RE MEANT TO BE

First-year students and King Warrior participating in an Orientation event. During Welcome Week, you'll connect with future classmates, experience unique Waterloo traditions, and learn all about the university and our Warrior community.



DISCOVER MORE FIRST-YEAR YOU STORIES

uwaterloo.ca/future/life

WATERLOO EXPERIENCES

ATTEND ORIENTATION

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

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

FEEL AT HOME IN CANADA

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

– *Lichheng, Planning, Co-op*

EXPLORE THE CITY

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

– *Shiyan, Mathematics, Co-op*

BUILD YOUR COMMUNITY

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

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

MEET WITH A MENTOR/UPPER-YEAR STUDENT

“One of the first people I met was an upper-year mentor who took the time to help 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*



LIVE YOUR BEST WARRIOR LIFE

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

VARSITY TEAMS

◆ co-ed

● women

■ men

Badminton ◆

Baseball ■

Basketball ■ ●

Cross-Country ■ ●

Curling ■ ●

Field Hockey ●

Figure Skating ◆

Football ■

Golf ■ ●

Hockey ■ ●

Nordic Skiing ■ ●

Rugby ■ ●

Soccer ■ ●

Squash ■ ●

Swimming ■ ●

Tennis ■ ●

Track and Field ■ ●

Volleyball ■ ●

FREE entry to Waterloo Warriors home games with your WatCard

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

YOUR VOICE ON CAMPUS

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

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!

STAY ACTIVE

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

NEW FRIENDS, LIFELONG MEMORIES

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

PICTURE YOURSELF HERE

uwaterloo.ca/future/life

START STRONG

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

HERE FOR YOU FROM DAY ONE

UPGRADE YOUR ENGLISH

If you meet our academic requirements but your English language scores are lower than required, you may get a conditional offer of admission that allows you to take intensive language courses while earning credit toward your Waterloo degree. At Waterloo, this program is called Bridge to Academic Success in English (BASE).

See page 54 for our English language requirements.

PRACTISE WITH PEERS

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

- › English Conversation Cafés
- › Conversation Partner Program
- › Language and Culture Corner



ACCESS HEALTH AND DENTAL CARE

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

FIND COMFORT IN COMMUNITY

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

100+ countries are represented by our undergraduate students

1 IN 5 undergraduate students are international visa students

6 Regulated Canadian Immigration Consultants offer immigration advice on campus

START STRONG AT WATERLOO

uwaterloo.ca/future/international-support

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

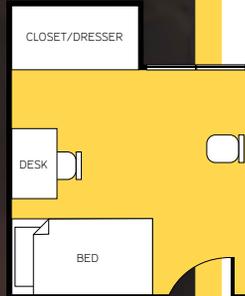
Whether you're hitting the books, hanging out with friends, or enjoying some quiet time, there's dedicated space for that – including areas for studying, fitness, prayer, music, and more.

SAMPLE ROOM FLOOR PLANS

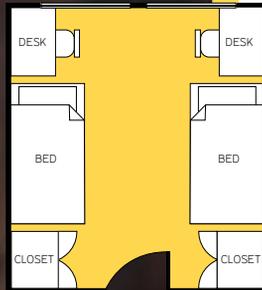
SUITE-STYLE ROOMS



SINGLE ROOM



DOUBLE ROOM



MAKE IT YOUR OWN

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

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 food from 40+ vendors, with halal, kosher, vegan, or made-to-order options for those with 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

120+ Campus Wellness staff members to support you

**HOME TO THE
GLOW CENTRE**

Canada's oldest continuously run 2SLGBTQ+ student organization since 1971

STRENGTH IN DIVERSITY

INTERNATIONAL AND CANADIAN STUDENT NETWORK*

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

THE GLOW CENTRE FOR SEXUAL AND GENDER DIVERSITY*

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

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

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

WATERLOO CHAPLAINS

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

WELLNESS ON CAMPUS

HEALTH SERVICES

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

COUNSELLING SERVICES

Counselling Services supports your personal, social, and academic experiences through one-on-one counselling, group therapy, and skills seminars.

MENTOR ASSISTANCE THROUGH EDUCATION AND SUPPORT (MATES)*

Offering one-to-one peer support and workshops, MATES helps you through academic, personal, and mental health challenges.

EMPOWER ME

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

STUDENT SUPPORT

STUDENT SUCCESS OFFICE (SSO)

The SSO provides academic support programs, leadership workshops, peer coaching, exchange and study abroad programs, and more. They also help you adjust to life in Canada by providing access to free immigration consulting appointments and through community-based activities with fellow students.

ACCESSABILITY SERVICES

AccessAbility Services designs and facilitates academic accommodation plans if you have a permanent, temporary, or even suspected disability.

EQUITY OFFICE

The Equity Office advances equity across campus through policies, practices, and programs.

SEXUAL VIOLENCE PREVENTION AND RESPONSE OFFICE (SVPRO)

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

PRESIDENT'S ANTI-RACISM TASKFORCE (PART)

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

WE'RE ALL IN THIS TOGETHER

uwaterloo.ca/future/support

HERE 24/7

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

CAMPUS

ALL ABOUT PLACE

Discover Waterloo's most iconic spots.



HAGEY HALL HUB



EARTH SCIENCES MUSEUM



ENVIRONMENT 3 ATRIUM



WILLIAM G. DAVIS COMPUTER RESEARCH CENTRE

DISCOVER MORE BY FOLLOWING US ON INSTAGRAM

 @UofWaterloo



WILLIAM M. TATHAM CENTRE FOR CO-OPERATIVE EDUCATION & CAREER ACTION



SCIENCE TEACHING COMPLEX ATRIUM



SEDRA STUDENT DESIGN CENTRE



DANA PORTER LIBRARY/ARTS QUAD



MIKE & OPHELIA LAZARIDIS QUANTUM-NANO CENTRE



FACULTY OF HEALTH STUDENT SPACE/CAFÉ

BUSINESS AT WATERLOO

WARNER

ACCOUNTING AND FINANCIAL MANAGEMENT, CO-OP

Ready to get your hands dirty? Growing up on his family's 100-acre farm, Warner was immersed in all aspects of the business. Problem-solving, planning, and learning how to be successful inspired him to study at Waterloo's School of Accounting and Finance.

His upbringing also nurtured an all-hands-on-deck mentality – something Warner brought to campus as a Living Learning Community Peer Leader and co-ordinator of the University of Waterloo Accounting Conference (UWAC). At Waterloo, he's found a community of people with "similar passions and things that motivate us to want to keep striving to do better."

LEARN WHERE INNOVATION THRIVES

Business

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

TOP 5 in Canada for accounting and finance
(QS World University Subject Rankings, 2022)

HOME OF VELOCITY

Canada's most productive startup incubator

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.

TAKE YOUR BIG IDEA TO MARKET

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

BUSINESS PROGRAMS

Learn more on pages 40-47.

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

uwaterloo.ca/future/business

WATERLOO FACULTIES

NATHANIAL
HONOURS ARTS,
FRENCH STUDIES MAJOR

“What if I change my mind?” This question – and the flexibility to switch programs risk-free – drew Nathaniel to Arts. After first year, he made an easy transition from Political Science and Legal Studies to French Studies. That decision deepened his passion for French culture and led him to study abroad in France.

“I know university feels like a big transition – and it is. But you have a whole bunch of time ... And you can decide along the way if you want to change your route.”

PASSION IS YOUR COMPETITIVE ADVANTAGE

Faculty of Arts

In Honours Arts and
Honours Arts and
Business, you spend

40%

of your time
studying a
chosen major

90+

partner universities
offer international study
exchanges to Arts students



This is the place where your curiosity will intersect with creativity and critical thinking. With 30 honours majors to choose from, you'll enrich your perspective through learning that spans diverse disciplines and a community that challenges you to dive deeper. Pursue co-op terms, career-focused minors, study-abroad adventures, and experiential education certificates. You'll graduate with the skills and experience to succeed wherever your curiosity leads.

ENTRY PROGRAMS

Learn more about Arts entry programs, majors, and specializations on pages 40-47, or go online to download any of our Arts brochures.

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

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

PROFESSIONAL DEGREE

- › Social Work (Renison University College)

Apply after completing your undergraduate degree.

MAJORS

- › Anthropology
- › Classical Studies
- › Classics
- › Communication Arts and Design Practice
- › Communication Studies
- › Economics
- › English: Creative 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
- › German
- › History
- › Legal Studies
- › Liberal Studies
- › Medieval Studies
- › Music
- › Peace and Conflict Studies
- › Philosophy
- › Political Science
- › Psychology
- › Religious Studies
- › Sexuality, Marriage, and Family Studies
- › Social Development Studies
- › Sociology
- › Spanish
- › Theatre and Performance

uwaterloo.ca/future/arts

WATERLOO FACULTIES

AILEEN

ENVIRONMENTAL ENGINEERING, CO-OP

Prepare to unlock limitless possibilities! For Aileen, Environmental Engineering courses and fieldwork allowed her to build a unique skill set that she applied to launch her own startup, BeBlended, and pursue six diverse co-op experiences – including one in Belgium.

“Sure, you learn a lot of theory. But in Engineering at Waterloo, you apply what you’re learning to the real world. In general, engineering teaches you how to solve problems with so many constraints and minimal resources. Realizing that engineers are problem solvers really helped me lay the groundwork for my entrepreneurial journey.”

DESIGN YOUR PATH TO POSITIVE IMPACT

A young woman with dark hair pulled back, wearing a black turtleneck and a blue denim apron, is sitting on a large rock outdoors. She is smiling warmly at the camera while holding an open notebook. The background is a soft-focus green landscape with trees and grass.

Faculty of Engineering

TOP 50 in the world for Engineering
(QS World University Subject Rankings, 2022)

93.4% of the Engineering class of
2018 were employed within
six months of graduation

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

ENTRY PROGRAMS

Learn more about each entry program on pages 40-47, or go online to download an Engineering brochure.

- › 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.

uwaterloo.ca/future/engineering

TOP 10 in Canada for climate action
(*Times Higher Education University
Impact Rankings, 2022*)

#4 in Canada for both environmental
sciences and geography (*QS World
University Subject Rankings, 2022*)

CULTIVATE THE POWER OF YOUR POINT OF VIEW

Faculty of Environment

MICHELLE
ENVIRONMENT AND BUSINESS, CO-OP

If you don't have a clear sense of your career path, Michelle can relate. Instead, she followed her passions for climate action and sustainability to the Environment and Business program. Now she's blazing her own trail through co-op, volunteering, and extracurricular experiences.

Whether it's writing for the Environment student newspaper or serving as sustainability commissioner for Waterloo's undergraduate student association, Michelle sees university as an opportunity to grow in all ways – not just academically.

"The people I'm most inspired by are using school as a way to achieve their actual goals."



Join the global movement advocating for a greener, more sustainable future – whatever your #EarthGoals are/may be. 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 40-47, or go online to download an Environment brochure.

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

uwaterloo.ca/future/environment

WATERLOO FACULTIES

MANAL

PUBLIC HEALTH, CO-OP

What learning environment do you thrive in? For Manal, hands-on experiences help her learn in a way no textbook can. That's part of the reason she fell in love with Public Health.

From pursuing co-op to conducting community health initiatives to drafting a mock policy brief proposal for Health Canada for one of her classes, Manal's experience in the Faculty of Health has immersed her in real-world learning.

"I can confidently say I no longer feel like academics are a chore. I just had to find a program I was passionate about."

CARING IS YOUR SUPERPOWER

Faculty of Health



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

53%

of Health Sciences and Kinesiology graduates go on to professional or graduate school

98%

of Health grads are employed or pursuing further education within a year of graduating

ENTRY PROGRAMS AND MAJORS

Learn more about Health entry programs and majors on pages 40-47, or go online to download a Faculty of Health brochure.

- > Health Sciences
- > Kinesiology
- > Public Health
- > Recreation and Leisure Studies*
 - Recreation and Leisure Studies
 - Recreation and Sport Business
 - 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.

uwaterloo.ca/future/health

WATERLOO FACULTIES

NAVYA

COMPUTING AND FINANCIAL MANAGEMENT, CO-OP,
STATISTICS MINOR

At Waterloo, you can tailor your experience to what lights you up. For Navya, who grew up building LEGO models and in awe of Siri, that means exploring fundamental questions in machine learning.

Through co-op experiences building trading algorithms at the Bank of Montreal, doing operations analytics for Loblaws, and working in back-end engineering at Splunk, he's been able to dabble in "a wide range of industries while, at the same time, specializing in a niche subject I'm really passionate about."

WHERE PROBLEMS SEEK SOLVERS

Faculty of Mathematics

TOP 25

in the world for Computer Science (*QS World University Subject Rankings, 2022*)

#1

in Canada for Mathematics (*Maclean's University Rankings, 2021*)

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

ENTRY PROGRAMS AND MAJORS

Learn more about Mathematics entry programs and majors on pages 40-47, or go online to download any of our brochures.

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

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

uwaterloo.ca/future/mathematics

WATERLOO FACULTIES

AISHWARYA

PHYSICAL SCIENCES, CO-OP,
PHYSICS MAJOR

Where will your passion lead you? Aishwarya's love of physics started at eight years old when he attended an astronomy workshop and first learned about constellations and space travel. "I ate up encyclopedias like people read Harry Potter books."

Learning from renowned theoreticians at Waterloo and working as a research assistant at the Institute for Quantum Computing have only deepened Aishwarya's curiosity.

"I chose physics because it's versatile. It teaches you problem solving and develops that intuitive mindset you can use to work in basically any field."

EXPERIMENT WITH YOUR POSSIBILITIES

Faculty of Science

#2 in Canada for materials sciences. #4 in Canada for physics and astronomy (QS World University Subject Rankings 2022)

\$49M+ in annual research funding helps to finance meaningful research jobs for Science students

NOBEL PRIZE IN PHYSICS

PROFESSOR DONNA STRICKLAND, 2018



In our most research-centric faculty, use your curiosity, ingenuity, and passion for knowledge to discover everything from atoms and cells to the vast expanses of space. Learn to think critically, experiment confidently, and engage intelligently through hands-on labs, projects, and co-op terms. Participate in groundbreaking research, or test your ideas in our Science Innovation Hub. Whichever path you choose to explore, your Science degree will give you the foundation you need to succeed.

ENTRY PROGRAMS AND MAJORS

Learn more about these programs on pages 40-47, or go online to download any of our Science brochures.

- > Biotechnology/Chartered Professional Accountancy
- > Environmental Science
- > Honours Science
- > Life Sciences*
 - Biochemistry
 - Biology
 - Biomedical Sciences
 - Psychology
- > Physical Sciences*
 - 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.

uwaterloo.ca/future/science

PROGRAM DETAILS

THE FINER POINTS



**ORDER A PROGRAM
BROCHURE TO
LEARN MORE!**

LEGEND

- ✳ Only offered at the University of Waterloo
- ⓔ Available online
- E = Entry-level program: apply directly through Ontario Universities' Application Centre (OUAC)
- M = Major: subject of major interest, apply through an entry-level program
- Sample courses
- ▲ Specializations
- Career possibilities

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

A / PAGE 41

- > Accounting and Financial Management
- > Actuarial Science
- > Anthropology
- > Applied Mathematics
- > Architectural Engineering
- > Architecture

B / PAGE 41

- > Biochemistry
- > Biological and Medical Physics
- > Biology
- > Biomedical Engineering
- > Biomedical Sciences
- > Biostatistics
- > Biotechnology/Chartered Professional Accountancy
- > Business Administration (Laurier) and Computer Science (Waterloo) Double Degree
- > Business Administration (Laurier) and Mathematics (Waterloo) Double Degree

C / PAGE 42

- > Chemical Engineering
- > Chemistry
- > Civil Engineering
- > Classical Studies
- > Climate and Environmental Change
- > Combinatorics and Optimization
- > Communication Studies
- > Computational Mathematics
- > Computer Engineering
- > Computer Science
- > Computing and Financial Management

D / PAGE 42

- > Data Science

E / PAGES 42-43

- > Earth Sciences
- > Economics
- > Electrical Engineering
- > English
- > Environment and Business
- > Environment, Resources and Sustainability
- > Environmental Engineering
- > Environmental Science

F / PAGE 43

- > Fine Arts
- > French

G / PAGE 43

- > Gender and Social Justice
- > Geography and Aviation
- > Geography and Environmental Management
- > Geological Engineering
- > Geomatics
- > German
- > Global Business and Digital Arts

H / PAGES 43-44

- > Health Sciences
- > History
- > Honours Arts
- > Honours Arts and Business
- > Honours Science

I / PAGE 44

- > Information Technology Management
- > International Development

K / PAGE 44

- > Kinesiology
- > Knowledge Integration

L / PAGE 44

- > Legal Studies
- > Liberal Studies
- > Life Sciences

M / PAGES 44-45

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

N / PAGE 45

- > Nanotechnology Engineering

O / PAGE 45

- > Optometry

P / PAGE 46

- > Peace and Conflict Studies
- > Pharmacy
- > Philosophy
- > Physical Sciences
- > Physics
- > Physics and Astronomy
- > Planning
- > Political Science
- > Psychology (BA)
- > Psychology (BSc)
- > Public Health
- > Pure Mathematics

R / PAGES 46-47

- > Recreation and Leisure Studies
- > Recreation and Sport Business
- > Religious Studies

S / PAGE 47

- > Science and Aviation
- > Science and Business
- > Sexuality, Marriage, and Family Studies
- > Social Development Studies
- > Social Work
- > Sociology
- > Software Engineering
- > Spanish
- > Statistics
- > Sustainability and Financial Management
- > Systems Design Engineering

T / PAGE 47

- > Theatre and Performance
- > Therapeutic Recreation

A*** 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, International Business

▲ Public Accounting, Entrepreneurial Mindset, Financial Leadership, Financial Markets, Business Analytics, Sustainability

■ Accountant, auditor, investment banker

ACTUARIAL SCIENCE / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

Predict the future – without a crystal ball. In one of North America's top-ranked actuarial science programs, you'll use math and statistics to predict uncertain events such as stock market performance or an insurance company's payouts. Prepare for your professional actuary designation with courses in finance, risk theory, pensions mathematics, and more.

● Corporate Finance, Applied Linear Models, Investment Science

■ Actuarial analyst, consultant, financial analyst

ANTHROPOLOGY / FACULTY OF ARTS

(M, Bachelor of Arts) Co-op available

From Neanderthals to Gen Z, discover what it means to be human. Explore evolution and early societies, or tackle contemporary issues such as violence and media. Whether you're examining fossils and bones in the lab or conducting fieldwork in the Mediterranean, the Arctic, or Africa, you'll learn more about how the human race has evolved over time.

● Biological Anthropology; Skeletal Biology and Forensics; Archaeological Field School

■ Archaeologist, curator of natural property, heritage planner

APPLIED MATHEMATICS / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

Apply your knowledge of mathematical concepts and computational tools to complex issues in areas such as communications engineering or climate change.

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

▲ Biology, Economics, Engineering, Physics

■ Researcher, software developer, analyst

ARCHITECTURAL ENGINEERING / FACULTY OF ENGINEERING

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

Build better buildings (and a bright career in the process). In 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.

● Design Studio; Building Science and Technology; Energy and the Environment; History of the Built Environment; Building Envelope

▲ Building Structures, Building Systems

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

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

B**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.

● Geometrical and Physical Optics; Modelling Life Physics; Molecular and Cellular Biophysics

■ 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 ENGINEERING / FACULTY OF ENGINEERING

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

Create tomorrow's lifesaving 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

▲ Neural Engineering, Sports Engineering

■ Research and development of biomaterials, biomechanics, medical devices, imaging, and biomedical data science

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

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

*** 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

*** 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

Combine the worlds of bytes and business – and earn two degrees in five years. In one of the top computer science programs in Canada, you'll learn about software development, algorithms and data structures, and artificial intelligence. At nearby Wilfrid Laurier University, you'll study business essentials like brand communication, accounting, and marketing.

● Designing Functional Programs; Understanding the Business Environment; Computer Organization and Design

■ Business analyst, software engineer, application developer

*** BUSINESS ADMINISTRATION (LAURIER) AND MATHEMATICS (WATERLOO) DOUBLE DEGREE / FACULTY OF MATHEMATICS**

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

Five years, two degrees, one serious edge. Combine Waterloo's strength in mathematics with the business expertise of Wilfrid Laurier University, and earn two prestigious degrees in the time it takes to earn one co-op degree. You'll graduate from one of Canada's most technical business programs with analytical and problem-solving skills that will set you apart.

● Financial Mathematics, Management Information Systems, Introduction to Optimization

■ Securities trader, management analyst, corporate strategist

G

CHEMICAL ENGINEERING / FACULTY OF ENGINEERING

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

● Chemical Reaction Engineering, Electrochemical Engineering, Bioprocess Engineering, Air Pollution Control, Food Process Engineering, Process Optimization, Process Data Analysis

▲ 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, process safety management

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

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

▲ Geotechnical, Transportation, Structural, Water Resources

■ Design and construction of roadways, buildings, urban transportation, and water systems

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

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

● Greek Art and Architecture; Astrology and Magic; Roman History

■ Teacher, reference librarian, technical writer

*** CLIMATE AND ENVIRONMENTAL CHANGE /**

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

Get ready to tackle the world's biggest environmental crisis. Gain deep scientific knowledge in climate change, master practical tools like computer modelling, and hone the skills to build a low-carbon future. You'll combine classroom learning with hands-on experience in labs and fieldwork – and paid work experience through the co-op option.

● 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

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

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

In this exciting, highly interactive program, you'll explore how our everyday forms of communication create meaning and shape our perspective of the world. Through creative, collaborative, and critical engagement, you'll prepare for a career in public relations, broadcasting, teaching, or marketing. Major in Communication Studies or go with Communication Arts and Design Practice for a stronger emphasis on how meaning is created through creative digital design.

● Persuasion, Crisis Communication, Digital Presentations

■ Strategic planning officer, communications officer, digital media coordinator

COMPUTATIONAL MATHEMATICS / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

Get ready to solve industrial-sized problems. In one of the world's top schools for math and computer science, learn to analyze data sets and formulae to better understand the world around us. You'll develop computer modelling skills to tackle mathematical problems found in business, economics, engineering, finance, medicine, and science.

● Data Structures and Data Management; Logic and Computation; Stochastic Simulation Methods

■ Project manager, enterprise architect, software developer

COMPUTER ENGINEERING / FACULTY OF ENGINEERING

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

Why choose? Develop software savvy and hardware know-how. Build and test computer hardware and software in our state-of-the-art labs. You'll work with everything from 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

■ Full stack software development, embedded platform engineering, data analytics

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 that computes. At one of the world's best schools for computer science, you'll develop a broad understanding in areas including systems and networks, algorithms, and software engineering. With 70+ computer science courses and loads of options and electives, you'll have lots of freedom to explore your interests. Questions? Email future-ugrad@cs.uwaterloo.ca.

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

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

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

Develop the know-how, networks, and experience to land a career in computer science or finance – or both. Combine your interdisciplinary studies with six co-op work terms in software development, banking, investments, risk management, or insurance to set yourself apart in a competitive marketplace. Questions? Email cfm@uwaterloo.ca.

● Object-Oriented Software Development; Regression and Forecasting Methods in Finance; Equity Investments

■ Software developer, quantitative analyst, investment banking analyst

D

DATA SCIENCE / DAVID R. CHERITON SCHOOL OF COMPUTER SCIENCE

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

Make sense of the tsunami of data produced by business, scientific, and social activity. Develop the foundation in computing systems, data analytics, statistics, and machine learning you need to extract meaningful information from data. You'll graduate with the skills to predict trends and help governments and businesses make better decisions.

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

■ Data scientist, statistician, business analyst

E

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

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

● Earth System Science, Petrography, Mineralogy

▲ Geology, Geophysics, Hydrogeology

■ Hydrogeologist, geologist, geophysicist

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

From piggy banks to the World Bank, learn how wealth is produced, distributed, and consumed – and how it shapes society, politics, and culture. You'll cover the fundamentals of micro- and macro-economics and analyze how those principles play out in a wide range of sectors, including finance, public policy, and international economics.

● Economics of Sport, Business Finance, Environmental Economics

▲ Econometrics, Financial Economics, Public Policy

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

ELECTRICAL ENGINEERING / FACULTY OF ENGINEERING

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

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

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

▲ Communications and Signal Processing

■ Autonomous vehicle control, renewable energy development, sensor and actuator design

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

Go beyond emojis. Our 150+ undergraduate courses give you all kinds of opportunities to explore the written word. Examine English literature, language, and new media while honing your skills as a communicator. Choose one of four majors: Creative Writing; Literature; Literature and Rhetoric; or Rhetoric, Media, and Professional Communication.

● Popular Potter, Introduction to Critical Game Studies, Global Shakespeare

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

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

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

Eco-warrior, meet business mogul. The only program of its kind in Canada, this degree gives you in-depth knowledge of environmental issues and the business world. Cover everything from stakeholder engagement and industrial ecology to finance, project management, marketing, and more. Then, put it all into practice in co-op work terms.

● 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

Become a sustainability superhero. Use insights from the natural, physical, and social sciences to help solve some of the world's biggest environmental challenges – from water scarcity to pollution to loss of biodiversity. Learn about conserving and restoring ecosystems, and explore issues in environmental politics, policy, and governance.

● Communities and Sustainability; Environmental and Sustainability Assessment; Ecosystem Assessment

■ Terrestrial and wetland biologist, sustainability policy analyst, sustainable energy consultant

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

Save the planet with a degree from Canada's largest environmental engineering program. Combine the technical rigour of engineering with a broad education in chemistry, biology, geology, and more. You'll graduate ready to clean up the world's water, soil, and air pollution – and to prevent future environmental problems.

● Air Quality Engineering; Environmental and Sustainability Assessment; Environmental Modelling

▲ Energy; Hydrology; Pollution Treatment and Control

■ Product design for air pollution control systems, process design for water treatment, protection and revitalization of ecosystems

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

Earn a science degree. Protect the Earth. Ranked among the top five 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

F

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

Explore the power of visual communication. Develop a critical understanding of art through painting, drawing, sculpture, printmaking, computer imaging, art history, and film studies. Choose Visual Culture or Studio Practice as your major. Want more? Add the Teaching Preparation Specialization to land a spot in teacher's college at Nipissing University.

● History of Film and Visual Media; Observational Drawing; Digital Imaging

▲ Teaching Preparation, Digital Art

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

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

Chez Waterloo, les possibilités sont infinies. A French degree gives you a valuable edge in almost any field. Include a year of study in Quebec or France, or live on the French-language residence floor on campus. And if you choose our French Teaching Specialization, you'll guarantee yourself a spot in teacher's 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

G

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 coordinator, social worker

✳ **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. 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

Join the movement, meet the moment. Explore how people shape our planet as you delve into Earth's physical and human systems and hone your technical skills in environmental analysis. Learn about climate change, landforms, population growth, Geographic Information Systems (GIS), and other key topics in one of Canada's top-ranked geography programs.

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

■ Environmental stewardship coordinator, sustainability consultant, teacher

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, 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

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

Tap into Waterloo's world-class computer science expertise when you join this fast-growing field that combines the power of computing with geographic and environmental analysis. Learn to use tools such as remote sensing, computer mapping, GPS, and Geographic Information Systems (GIS) to analyze data and make meaningful decisions.

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

■ Data analyst, GIS operator, remote sensing specialist

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

Get an education that's *wunderbar*. We offer way more than just German language courses. Explore German culture, film, literature, and linguistics, or add classes in Slavic languages like Russian and Croatian. You can even earn credits studying in Germany. You'll graduate with valuable skills for careers in education, business, and government.

● German through Comics, German for Professional Purposes, German Filmmakers in Hollywood

■ Editor and communications manager, business analyst, sales manager

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

Lead business into the future through the power of digital media. Explore cross-cultural communication and management, digital design, and emerging technologies. Spend your upper years at the Stratford School of Interaction Design and Business, and enhance your learning with co-op. Questions? Email stratfordprograms@uwaterloo.ca.

● Introduction to Digital Media Design; Marketing in the Digital World; Working in Teams and Project Management

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

H

HEALTH SCIENCES / FACULTY OF HEALTH

(E, Bachelor of Science) Co-op available

Learn how to promote healthy practices and improve health-care systems by combining the science and social aspects of health. You'll graduate ready to tackle global epidemics, transform public health policy, and more – or pursue further studies in medicine, epidemiology, or nursing.

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

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

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

HISTORY / FACULTY OF ARTS (M, Bachelor of Arts)

Co-op available

Develop a worldview that goes back centuries. With support from award-winning professors, you'll develop analytical skills and a knack for seeing patterns from the past that can make sense of the present and influence the future. Focus on Canadian, American, European, or international history.

- Rock 'n' Roll and US History; Russia: From Tsars to Putin; Indigenous Histories of Canada

- ▲ 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

Pursue your passions. Shape your future. Explore a variety of subjects, or immerse yourself in one of 30 Arts majors. Choose to add co-op and get up to 20 months of paid work experience before you graduate. Refer to your specific major of interest (M) for more details. Also offered at St. Jerome's University and Renison University College, smaller academic communities on Waterloo's campus.

HONOURS ARTS AND BUSINESS / FACULTY OF ARTS

(E, Bachelor of Arts) Co-op available

Combine valuable business studies with one of 30 Arts majors. Opt for co-op and gain nearly two years of paid work experience. Refer to your major of interest (M) for details. Also offered at St. Jerome's. After applying you may co-register with Renison, a smaller academic community on Waterloo's campus.

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

Deciding is difficult. If you're still exploring the sciences that 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

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

Become fluent in IT talk and business jargon. Combine computer science studies in systems analysis, e-business, and networks with business courses such as marketing, project management, and statistics. You'll graduate with the ability to apply IT solutions to business processes and bridge the gap between CEO and computer specialist.

- Management Information Systems, Electronic Business, Computer Applications in Business: Databases

- Business systems analyst, web developer, database administrator

INTERNATIONAL DEVELOPMENT / FACULTY OF ENVIRONMENT (E, Bachelor of Environmental Studies) Regular only

Get the toolkit you need to build a better world. Tackle issues of economic inequality, social injustice, and environmental change, and apply your skills on an eight-month overseas placement. You'll graduate knowing how to design development projects that are ethical, environmentally sustainable, culturally responsible, and evidence-based.

- Problem-Solving for Development, Global Cities in Global Development, Introduction to Social Entrepreneurship

- Not-for-profit program manager, international partnership manager, grant officer

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

Make a smart play: study the science of human movement. In this multidisciplinary program, you'll gain hands-on skills in preventing, assessing, and treating movement-related illness and injury (and study anatomy on real human cadavers!). Prepare for a career or professional programs like medicine, chiropractic, or physiotherapy.

- Regional Human Anatomy; Fundamentals of Neuroscience; Musculoskeletal Injuries in Sport and Activity

- ▲ Ergonomics and Injury Prevention, Human Nutrition, Medical Physiology, Rehabilitation Sciences

- Health professional (e.g., medical doctor, physical therapist, occupational therapist, athletic therapist, kinesiologist, chiropractor), ergonomist, clinical research associate, exercise physiologist

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

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

- Collaboration, Design Thinking, and Problem Solving; Nature of Scientific Knowledge; Creative Thinking

- ▲ Collaborative Design; Science, Technology, and Society

- Business analyst, design strategist, user experience researcher, lawyer, physician

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

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

- Criminology; Women and the Law; Children's Rights in Canada

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

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

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

- Introduction to Microeconomics, Conflict Resolution, Basic Human Resources Management, Introduction to Legal Studies

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

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

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

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

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

- Advanced Machine Learning; Principles of Software Engineering; Deterministic Optimization Models and Methods; Supply Chain Management; Decision Support Systems

- Data scientist, business intelligence analyst, technical product manager

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

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

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

- Materials scientist, nanotechnologist, materials process specialist

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

Do the math that underpins economies. Learn about the mathematical models that drive economic theory and how to use differential calculus, differential equations, and mathematical optimization to understand and predict economic behaviour. You'll graduate ready for a career with banks, government, or industry, or for a master's or doctoral program.

- 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. You'll explore the math behind financial markets, study corporate finance, quantitative risk management, statistical forecasting, and more – everything you need for a high-flying career in banking and finance.

- Introduction to Investments, Forecasting, Real Analysis

- Controller, compliance analyst, investment policy analyst

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

Find solutions to resource scarcity issues, from streamlining sports team schedules to making factories more efficient. You'll study mathematical modelling in your optimization, probability, statistics, and computer science courses and hone your skills with case studies. Then round out your degree with business, economics, and management science.

- Introduction to Computational Mathematics, 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 modeller

MATHEMATICAL PHYSICS / FACULTY OF SCIENCE

(M, Bachelor of Science) Co-op available

Dig deeper into physics with a serious helping of math. Take advantage of Canada's only faculty of mathematics and one of Canada's most innovative departments of physics to explore both subjects in depth. It's great grounding for careers involving anything from the theoretical foundations of quantum technology to the nature of the universe.

● Computational Physics and Linear Algebra; Quantum Physics; Classical Mechanics and Special Relativity

■ Theoretical physicist, data scientist, quantitative analyst

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

Earn a degree that counts! Apply to Mathematics to study any of the following math majors (M): 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, and Statistics.

MATHEMATICS/BUSINESS ADMINISTRATION / FACULTY OF MATHEMATICS

(E, Bachelor of Mathematics) Co-op available

It's a simple equation: math + business = career success. Build your degree with courses from two prestigious institutions: math courses from Waterloo's Faculty of Mathematics and business courses from nearby Wilfrid Laurier University. You'll graduate with the technical expertise and analytical know-how to thrive in the world of business.

● Corporate Finance, Introduction to Managerial Accounting, Computer Applications in Business

■ Operations manager, risk modelling analyst, investor relations specialist

MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY / FACULTY OF MATHEMATICS AND SCHOOL OF ACCOUNTING AND FINANCE

(E, Bachelor of Mathematics) Co-op only

Really understand the numbers. In this one-of-a-kind program, you'll earn a Bachelor of Mathematics as you prepare for a career as a Chartered Professional Accountant (CPA). You'll acquire a strong background in the mathematical field of your choice, along with equally focused studies in accounting, economics, and business.

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

■ Accountant, controller, auditor

MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT / FACULTY OF MATHEMATICS

(E, Bachelor of Mathematics) Co-op available

Crunch numbers, calculate odds, and create career success in this challenging program – one of just a few across Canada recognized by the CFA Institute and PRMIA. You'll combine mathematics with finance, accounting, economics, and risk management. Specialize in chartered financial analysis or risk management, and graduate ready for your professional exams.

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

■ Financial analyst, risk analyst, investment analyst

MATHEMATICS/TEACHING / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op only

Inspire the next generation as a high school math teacher. Combine your math, statistics, and computer science courses with eight months of classroom experience – more than any other Bachelor of Education preparatory program in Canada – before you apply to teachers' college. Want to do some of your learning overseas? Opt for our four-month Math in Europe program.

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

■ Teacher, online learning consultant, instructional media developer

MECHANICAL ENGINEERING / FACULTY OF ENGINEERING

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

Put your career in gear. This program gives you a broad foundation in all aspects of mechanical design – and lots of opportunities to get your hands dirty in our well-equipped labs. You'll study factors like the environment, safety, manufacturing, and materials, so you'll graduate with the knowledge to design everything from switches to spacecrafts.

● Aerodynamics, Industrial Metallurgy, Electromechanical Devices and Power Processing, Heat Transfer

■ Design of aerospace accessories, manufacturing of wind turbines, research and development in automotive technologies

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

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; Transition Element Compounds and Inorganic Materials; Fundamentals of Metabolism

■ Medicinal chemist, research chemist, synthetic chemist

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!)

● Crusading in the Middle Ages, Medieval Society, The History of Islamic Civilization

■ 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

N

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 smartphones to food processing to cancer treatment.

● Nanotoxicology, Nano-electronics, Structure and Properties of Nanomaterials

■ Nanomedicine, nano-engineered materials, semiconductor manufacturing, drug and vaccine development, wearable technologies

O

OPTOMETRY / SCHOOL OF OPTOMETRY AND VISION SCIENCE

(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 opt-admissions@uwaterloo.ca.

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

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

P

PEACE AND CONFLICT STUDIES / FACULTY OF ARTS

(M, Bachelor of Arts) Co-op available

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

- Human Rights, Peace, and Business; Conflict Resolution; Restorative Justice; Gender in War and Peace

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

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

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

- Integrated Patient Focused Care, Professional Practice, Medical Microbiology

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

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.

- Foundations of Ethics; Probability and Decision Making; Philosophy of Mind

- Lawyer, public policy analyst, ethicist, corporate archivist

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

Investigate what makes the physical world tick. Apply to this entry program to study these majors (M) starting in first year: Biological and Medical Physics, Chemistry, Earth Sciences, Materials and Nanosciences, Mathematical Physics, Medicinal Chemistry, Physics, or Physics and Astronomy. Refer to your major of interest for details.

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

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

- 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 Physics Optics, Galaxies

- Astronomer, aerospace scientist, remote sensing scientist

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

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

- Social Concepts in Planning; Transportation Planning and Analysis; Urban and Metropolitan Planning and Development

- ▲ Decision Support and Geographic Information Systems, Environmental Planning and Management, Land Development Planning, Urban Design

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

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

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

- Globalization, International Business, and Development; Topics in Politics and Business; Global Environmental Governance

- ▲ Politics and Business, Global Governance, Canadian Politics, International Relations

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

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

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

- Learning Disabilities, Basic Research Methods, Human Neuropsychology

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

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

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

- Organizational Psychology, Advanced Data Analysis, Natural Science Advanced Research Methods Topics

- Neuroscientist, child psychologist, psychiatrist

PUBLIC HEALTH / FACULTY OF HEALTH

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

Study with Canada's leading public health professors. Discover how understanding social, cultural, political, and geographical factors can help us tackle smoking, food insecurity, infectious diseases, and more.

- Social Determinants of Health, Principles of Public and Population Health, Public Health Nutrition, Ecological Determinants of Health

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

- Community relations officer, public health planner, policy developer

PURE MATHEMATICS / FACULTY OF MATHEMATICS

(M, Bachelor of Mathematics) Co-op available

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

- Fields and Galois Theory, Applied Complex Analysis, Differential Geometry

- Data scientist, operations analyst, research and academia

R

RECREATION AND LEISURE STUDIES / FACULTY OF HEALTH

(E or M, Bachelor of Arts) Co-op available

In one of North America's top-rated leisure departments, discover how to plan, manage, and deliver engaging recreation programs that enhance the well-being of individuals and communities. Gain industry-related experience in your courses, through co-op, or in a 105-hour practicum.

- Program Management and Evaluation; Play, Creativity, and Child Development; Leisure and Social Justice

- ▲ Event Management, Tourism

- Community recreation programmer, teacher, municipal recreation manager, policy researcher, director of parks and recreation

RECREATION AND SPORT BUSINESS / FACULTY OF HEALTH

(M, Bachelor of Arts) Co-op available

You love sports and leadership. So make it your career with this unique degree. Gain a solid understanding of sport and recreation, and build the business expertise you need to excel in different aspects of the sport and recreation industry – including marketing, communications, HR, finance, and strategy. Learn from experts during your classes, co-op, a 105-hour practicum, projects with industry partners, or an international exchange program.

- 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, human resources manager

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

Explore the fundamental beliefs that bind us – and divide us. Discover the world's great religions through more than 100 undergraduate courses covering Western and Eastern religions, the history of Christianity, biblical studies, theology, ethics, sociology, and the arts. Round off your degree with an optional four-month trek visiting holy sites across India.

- Religion in Popular Film; Sacred Beauty: Religion and the Arts; Love and Friendship
- Clinical therapist, interfaith chaplain, international development agency director

S

✳ **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

✳ **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

Want to improve the lives of others by creating a more equitable society? Explore diverse perspectives on human and social development through the lens of psychology, sociology, social work, and interdisciplinary courses. Focus your studies by adding a specialization and gain hands-on experience for your future career. Apply through Renison to begin this major in first year.

- Social Work with Families, Positive Psychology, 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, human resources manager

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

Prepare for a professional degree in social work that integrates in-class learning with an in-field practicum. This program is only available to students with a relevant undergraduate degree. For a strong foundation, consider enrolling in Social Development Studies first. Questions? Email renison.socialwork@uwaterloo.ca.

- Interviewing and Assessment, Mental Health and Addictions, Social Work with Older Adults
- Mental health, child welfare, policy

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

Get ready to wrestle with pressing questions, like how might we improve health care, criminal justice, the economy, and our relationships to one another. Explore topics such as age, class, ethnicity, religion, gender, social inequality, and more. When you graduate, apply your research and data analysis skills in government, health, policy and research, law, academia, or non-profit organizations.

- Terrorism; Games and Gamers; Organized Crime
- Youth justice advocate, justice policy analyst, research associate, ESL teacher

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

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

Say *hola* to an in-depth understanding of the Hispanic world. Explore the richness of Hispanic literature and culture while learning one of the world's most popular languages. Take advantage of our exchanges to Spain or Latin America, and consider adding a Diploma in Spanish-English Translation.

- Gender, Power, and Representation in Latin America; Introduction to Spanish Business Translation; Visual Culture in the Contemporary Hispanic World
- ▲ Spanish-English Translation
- Librarian, marketing manager, senior manager, translator

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

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

- Probability Models for Business and Accounting; Sampling and Experimental Design; Applied Linear Models
- Biostatistician, business intelligence specialist, software quality analyst

✳ **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.

- 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

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

Take a creative, interdisciplinary approach to solving engineering problems. This flexible program features experiential learning focused on the big picture woven through its core. You'll develop design skills that enable you to tackle challenges that lie at the interface of society, technology, and the environment.

- Environmental Systems, Human Factors in Design, Systems Models, Pattern Recognition
- Complex systems analyst, physical and digital device designer, data scientist, socio-environmental simulation modeler

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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

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

Help people get more out of life. You'll learn how to enhance quality of life by improving physical and mental health through recreation programs that foster inclusivity and strengthen the cultural fabric of a community. Combine practical courses with hands-on experience through co-op, volunteer opportunities, a required 105-hour practicum, and a required 560-hour internship in fourth year.

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

INTERNATIONAL 2023 ADMISSION REQUIREMENTS

AMERICAN AND INTERNATIONAL BACCALAUREATE SYSTEMS

NOTES

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. *Choose your major: see list on pages 28-39. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

AMERICAN SYSTEM

High School Diploma with prerequisite courses completed at the AP level and/or Grade 12 senior academic level.

NOTE:

min = minimum final grade,
average = minimum final overall Grade 12 average.

INTERNATIONAL BACCALAUREATE (IB) SYSTEM

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

SL Applications and Interpretations will not be accepted for any program.

NOTE:

HL = Higher Level,
SL = Standard Level,
min = minimum final grade,
total = overall minimum grade total.

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

ARTS

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

Global Business and Digital Arts Co-op only.

Honours Arts[†] (Waterloo, St. Jerome's, Renison) Regular and co-op.
Social Development Studies (Renison) Regular only.

Honours Arts and Business[†] (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through Renison.

CFM

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

ENGINEERING

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

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

SOFTWARE ENGINEERING

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

ENVIRONMENT

Climate and Environmental Change Regular and co-op.

Environment and Business Co-op only.

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

Geography and Aviation Regular only. Program briefing session and Transport Canada Category 1 Aviation Medical Certification required.

Geomatics Regular and co-op.

International Development Regular only.

Knowledge Integration Regular only.

Planning Co-op only.

HEALTH

Health Sciences Regular and co-op.

Kinesiology Regular and co-op.

Public Health Regular and co-op.

Recreation and Leisure Studies[†] Regular and co-op.

MATHEMATICS

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

Computer Science[†] Regular and co-op. AIF required. Individual selection may vary.

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

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

SCIENCE

Biotechnology/Chartered Professional Accountancy Co-op only. **Environmental Science, Life Sciences**[†], **Physical Sciences**[†], **Science and Business** Regular and co-op. **Honours Science** Regular only. **Science and Aviation** Regular only, Program briefing session, and Transport Canada Category 1 Medical Certification required.

SFM

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

AMERICAN SYSTEM**INTERNATIONAL BACCALAUREATE SYSTEM**

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Grade 12 English and Grade 12 Mathematics, min 75% in each. One of: Senior-Level Chemistry or Senior-Level Physics. Average 85%

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

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

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

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

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

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

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

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

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

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

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

Grade 12 English, Grade 12 Mathematics, and Grade 12 Science, min 80% in each. Average 85%.

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

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

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

Senior-Level Chemistry and Senior-Level Biology (preferably one at the AP level); Grade 12 Mathematics and Grade 12 English, min 75% in each. Average 88%.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

AP Calculus (preferred) or Grade 12 Calculus, min 75% (80% for Biotech/CPA). Grade 12 English, min 75% (80% for Biotech/CPA). Algebra (Pre-Calculus). Two of Biology, Chemistry, Physics, or Statistics. One other Grade 12 academic or AP course. Average 85%, including required courses; except for Biotechnology/Chartered Professional Accountancy: average 90%; Science and Aviation: average 88%.

Mathematics: Analysis and Approaches HL or SL, min 4. HL or SL English A, min 4, or HL English B, min 5. Two of Biology, Chemistry, or Physics. Total 27 for all; except Biotechnology/Chartered Professional Accountancy: total 32.

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

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

INTERNATIONAL 2023 ADMISSION REQUIREMENTS

INDIAN AND BRITISH SYSTEMS

NOTES

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. †Choose your major: see list on pages 28-39. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

INDIAN SYSTEM

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

Standard XII Applied Mathematics will be accepted for programs in the faculties of Environment and Applied Health Sciences.

NOTE:

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

BRITISH SYSTEM

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

NOTE:

min = minimum final grade.

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

ARTS

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

Global Business and Digital Arts Co-op only.

Honours Arts[†] (Waterloo, St. Jerome's, Renison) Regular and co-op.
Social Development Studies (Renison) Regular only.

Honours Arts and Business[†] (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through or Renison.

CFM

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

ENGINEERING

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

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

SOFTWARE ENGINEERING

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

ENVIRONMENT

Climate and Environmental Change Regular and co-op.

Environment and Business Co-op only.

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

Geography and Aviation Regular only. Program briefing session and Transport Canada Category 1 Aviation Medical Certification required.

Geomatics Regular and co-op.

International Development Regular only.

Knowledge Integration Regular only.

Planning Co-op only.

HEALTH

Health Sciences Regular and co-op.

Kinesiology Regular and co-op.

Public Health Regular and co-op.

Recreation and Leisure Studies[†] Regular and co-op.

MATHEMATICS

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

Computer Science[†] Regular and co-op. AIF required. Individual selection may vary.

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

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

SCIENCE

Biotechnology/Chartered Professional Accountancy Co-op only. **Environmental Science, Life Sciences**[†], **Physical Sciences**[†], **Science and Business** Regular and co-op. **Honours Science** Regular only. **Science and Aviation** Regular only. Program briefing session and Transport Canada Category 1 Medical Certification required.

SFM

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

| INDIAN SYSTEM | BRITISH SYSTEM |
|--|--|
| Std XII English, min 75%. Std XII Mathematics, min 75%. Overall 85% Std XII. | A Level Mathematics, min B, and two other A Level courses, min B in each. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 75%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII Mathematics and one other Std XII academic course, min 90% in each. Std XII English, min 75%. All Std XII courses: min 85%. | A Level Mathematics and two other academic A Level courses, min A in each. English at the GCSE, AS, or A Level, min B. |
| Std XII Mathematics and Std XII Physics, min 70%. Std XII English, min 75%. Two other Std XII courses. Overall 80% Std XII. | A Level Mathematics and A Level Physics, min B in each. One additional A Level course, min B. English at the GCSE, AS, or A Level, min B. One additional course at the GCSE, AS, or A Level, min B. |
| Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min 70% in each. Overall 85% in the five required courses. | A Level Mathematics and A Level Physics, min A in each. One additional A Level course, min B. Chemistry (GCSE Level required, A Level recommended), min B. GCSE-Level English, min B. As and A*s recommended. |
| Std XII Mathematics, Std XII Physics, Std XII Chemistry, Std XII English, and one other Std XII course, min 70% in each. Overall 85% in the five required courses. | A Level Mathematics and A Level Physics, min A in each. One additional A Level course, min B. Chemistry (GCSE Level required, A Level recommended), min B. GCSE-Level English, min B. As and A*s recommended. |
| Std XII English and Std XII Mathematics, min 70% in each. One of Std XII Chemistry or Std XII Physics. Overall 80% Std XII. | A Level Math, min B. One of: A Level Physics or Chemistry and one other A Level course, min B and C. English at the GCSE, AS or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English and Std XII Mathematics, min 70% in each. Strongly recommended: one of Std XII Physical or Environmental Science. Overall 80% Std XII. | A Level Mathematics, min B. Two other A Level courses, min B and C. Strongly recommended: one A Level course in Physical or Environmental Science. English at the GCSE, AS, or A Level, min B. |
| Std XII English and Std XII Mathematics, min 70% in each. Overall 80% Std XII. | A Level Mathematics, min B. Two other A Level courses, min one B and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, Std XII Mathematics, and one Std XII Science course, min 75% in each. Overall 80% Std XII. | A Level Mathematics and one A Level Science course, min B in each. One additional A Level course, min C. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 75%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII Chemistry, Std XII Biology, Std XII Mathematics, and Std XII English, min 70% in each. Overall 80% Std XII. | A Level Chemistry and A Level Biology, min B in each. A Level Mathematics, min C. English at the GCSE, AS, or A Level, min B. |
| Std XII Mathematics and Std XII English, min 70% in each. Two of Std XII Chemistry, Std XII Physics, or Std XII Biology, min 70%. Overall 80% Std XII. | A Level Mathematics, min C. Two of Biology, Chemistry or Physics (one must be A Level, min B). One other academic A Level course, min B. GCSE-Level English, min B. |
| Std XII English, min 75%. Std XII Mathematics, min 70%. Overall 80% Std XII. | A Level Mathematics, min C. Two other A Level courses, min B. English at the GCSE, AS, or A Level, min B. |
| Std XII English, min 70%. Overall 80% Std XII. | Three A Level courses, min two Bs and one C. English at the GCSE, AS, or A Level, min B. |
| Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. | A Level Mathematics, min A. Two other academic A Level courses, min A in each. English at the GCSE, AS, or A Level. |
| Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. | A Level Mathematics, min A. Two other academic A Level courses, min A in each. English at the GCSE, AS, or A Level. |
| Std XII Mathematics, min 85%. Std XII English. One other Std XII course, min 85%. All Std XII courses: min 80%. | A Level Mathematics, min A. Two other academic A Level courses, min A in each. English at the GCSE, AS, or A Level. |
| Std XII Mathematics, min 90%. Std XII English. One other Std XII course, min 90%. All Std XII courses: min 85%. | A Level Mathematics, min A. Two other academic A Level courses, min A in each. English at the GCSE, AS, or A Level. |
| Std XII Mathematics, min 70% (80% for Biotech/CPA). Std XII English, min 70% (80% for Biotech/CPA). Two of Std XII Biology, Std XII Chemistry, or Std XII Physics. One other Std XII course. Overall 80%, including required courses (Overall mid-80s for Biotech/CPA) | A Level Mathematics, min B. Two of Biology, Chemistry or Physics (one must be A Level, min B). One other academic A Level course, min B. GCSE-Level English, min B. Higher grades required for Biotechnology/Chartered Professional Accountancy. |
| Std XII English, min 75%. Std XII Mathematics, min 75%. Overall 85% Std XII. | A Level Mathematics, min B, and two other A Level courses, min B in each. English at the GCSE, AS, or A Level, min B. |

INTERNATIONAL 2023 ADMISSION REQUIREMENTS

CARIBBEAN AND CHINESE SYSTEMS

NOTES

Minimum admission requirements are subject to change. For some programs, the demand for places by qualified applicants exceeds the number of places available. †Choose your major: see list on pages 28-39. Some majors are competitive and require an application after first year.

AIF: Admission Information Form

uwaterloo.ca/future/admissions

CARIBBEAN ADVANCED PROFICIENCY EXAMINATION

Caribbean Secondary Education Certificate with passes in at least five subjects, two of which must be at the Unit 2 level.

NOTE:
min = minimum final grade.

CHINESE SYSTEM

Chinese High School Diploma. Completion of a minimum of five Senior 3 academic courses. Hui Kao and Gao Kao examination results. Final official documents verified by China Credential Verification (CSSD) are required from all Chinese National Curriculum students. If you are not writing the Gao Kao, you must submit a formal explanation to the Admissions Committee. For more information, refer to the program admission requirements on our website.

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

APPLICATION TIPS

- › If you're from a high school outside of North America and not following the American, British, Caribbean Advanced Proficiency Examination, Chinese, Indian, or International Baccalaureate system of study, you should attach course descriptions for senior-level mathematics along with your transcripts.
- › Repeated courses may be taken into consideration, depending on the program.
- › Engineering, mathematics, and science programs may consider GCSE English as a Second Language, provided that you also submit a satisfactory English language test score.

uwaterloo.ca/future/documents

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

| | |
|------|---|
| ARTS | Accounting and Financial Management Co-op only. School of Accounting and Finance Admissions Assessment (SAFAA) online interview (part 1) and trait assessment (part 2) required. |
| | Global Business and Digital Arts Co-op only. |
| | Honours Arts [†] (Waterloo, St. Jerome's, Renison) Regular and co-op. Social Development Studies (Renison) Regular only. |
| CFM | Honours Arts and Business [†] (Waterloo, St. Jerome's, Renison) Regular and co-op. After applying, you may co-register through Renison. |
| | Computing and Financial Management Co-op only. AIF required. |

ENGINEERING

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

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

SOFTWARE ENGINEERING

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

ENVIRONMENT

Climate and Environmental Change Regular and co-op.

Environment and Business Co-op only.

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

Geography and Aviation Regular only. Program briefing session and Transport Canada Category 1 Aviation Medical Certification required.

Geomatics Regular and co-op.

International Development Regular only.

Knowledge Integration Regular only.

Planning Co-op only.

HEALTH

Health Sciences Regular and co-op.

Kinesiology Regular and co-op.

Public Health Regular and co-op.

Recreation and Leisure Studies[†] Regular and co-op.

MATHEMATICS

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

Computer Science[†] Regular and co-op. AIF required.

Mathematics[†], **Mathematics/Business Administration, Mathematics/Financial Analysis and Risk Management** Regular and co-op. AIF required.

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

SCIENCE

Biotechnology/Chartered Professional Accountancy Co-op only. **Environmental Science, Life Sciences**[†], **Physical Sciences**[†], **Science and Business** Regular and co-op. **Honours Science** Regular only. **Science and Aviation** Regular only. Program briefing session and Transport Canada Category 1 Medical Certification required.

SFM

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

CARIBBEAN ADVANCED PROFICIENCY EXAMINATION**CHINESE SYSTEM**

Unit 2 Pure Mathematics, min 2. One other Unit 2 course, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English and Senior 3 Mathematics, min 80% in each. Overall 88% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English, min 80%. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 Mathematics, min 90%. Senior 3 English, min 80%. Overall 85% in Senior 3.

Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. English at the CXC, Unit 1, or Unit 2 level, min 2. One other Unit 1 or Unit 2 academic course, min 2.

Senior 3 Mathematics, min 76%. Senior 3 Physics, min 76%. Senior 3 English, min 80%. Overall 88% in Senior 3.

Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. Chemistry and English (CXC required, CAPE recommended), min 2 in each. One other Unit 1 or Unit 2 academic course, min 2. Mostly 1s recommended.

Senior 3 Mathematics. Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min 75% in each. One other Senior 3 academic course, min 75%. Overall 88% in five required courses.

Unit 2 Pure Mathematics and Unit 2 Physics, min 2 in each. Chemistry and English (CXC required, CAPE recommended), min 2 in each. One other Unit 1 or Unit 2 academic course, min 2. Mostly 1s recommended.

Senior 3 Mathematics. Senior 3 Physics, Senior 3 Chemistry, and Senior 3 English, min 75% in each. One other Senior 3 academic course, min 75%. Overall 88% in five required courses.

Unit 2 Mathematics and either: Unit 2 Chemistry or Unit 2 Physics, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English and Senior 3 Mathematics, min 75%. One of Senior 3 Chemistry or Senior 3 Physics. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Unit 2 Mathematics and one other Unit 2 course, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3. Strongly recommended: one Unit 2 course in Physical or Environmental Science.

Senior 3 English and Senior 3 Mathematics, min 75% in each. Strongly recommended: Senior 3 course in Physical or Environmental Science. Overall 88% in Senior 3.

Unit 2 Mathematics and one other Unit 2 course, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English and Senior 3 Mathematics, min 75% in each. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Unit 2 Mathematics and Unit 2 Science, min 2 in one and min 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English, Senior 3 Mathematics, and one Senior 3 Science, min 80% in each. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English, min 80%. Overall 85% in Senior 3.

Unit 2 Chemistry and Unit 2 Biology, min 2 in each. Mathematics and English at the CXC, Unit 1, or Unit 2 level, min 2 in each.

Senior 3 Chemistry, Senior 3 Biology, Senior 3 Mathematics, and Senior 3 English, min 75% in each. Overall 88% in Senior 3.

Unit 2 Pure Mathematics, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2. Two of Biology, Chemistry, or Physics (one must be at the Unit 2 level, min 2).

Senior 3 Mathematics and Senior 3 English, min 75% in each. Two of Chemistry, Physics, or Biology at the Senior 3 level, min 75%. Overall 85% in Senior 3.

Unit 2 Mathematics, min 2. One other Unit 2 course, min 3. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English, min 80%. Senior 3 Mathematics, min 75%. Overall 85% in Senior 3.

Two Unit 2 courses, min 2 in one and min 3 in the other. English at the CXC, Unit 1, or Unit 2 level, min 3.

Senior 3 English, min 75%. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.

Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.

Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.

Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 2. One other Unit 2 academic course, min 2. English at the CXC, Unit 1, or Unit 2 level.

Senior 3 Mathematics, min 90%. Senior 3 English. Overall 85% in Senior 3.

Unit 2 Pure Mathematics, min 3. English at the CXC, Unit 1, or Unit 2 level, min 2. Two of Biology, Chemistry, Environmental Science, or Physics (one must be at the Unit 2 level, min 2). Higher grades required for Biotechnology/Chartered Professional Accountancy.

Senior 3 Mathematics, min 75% (80% for Biotech/CPA). Senior 3 English, min 75% (80% for Biotech/CPA). Two of Senior 3 Biology, Senior 3 Chemistry, or Senior 3 Physics. One other Senior 3 academic course. Overall 85%, in Senior 3, including required courses. (90% for Biotech/CPA, 88% for Science and Aviation).

Unit 2 Pure Mathematics, min 2. One other Unit 2 course, min 2. English at the CXC, Unit 1, or Unit 2 level, min 2.

Senior 3 English and Senior 3 Mathematics, min 80% in each. Overall 88% in Senior 3.

APPLY TO WATERLOO

Let's get started.

uwaterloo.ca/future/apply

Need help planning for your future at Waterloo? Follow the checklist located at the back of this brochure and complete each step by the deadline. You'll be a Warrior in no time. If you have any questions, flip to the key contacts panel at the back of this brochure.

HOW DO I GET STARTED?

Your first stop is the Ontario Universities' Application Centre (OUAC) website: ouac.on.ca. Complete the 105 application and make arrangements to have your high school send us your transcripts. All of your official documents, including transcripts and English language test results, must be sent directly from the issuing institution or testing authority.

uwaterloo.ca/future/documents

IMPORTANT FALL 2023 APPLICATION DEADLINES

APPLY AND PAY YOUR FEES TO OUAC BY

FEBRUARY 1, 2023

DOCUMENTS MUST REACH THE UNIVERSITY OF WATERLOO BY

FEBRUARY 17, 2023

WHAT ABOUT ENGLISH LANGUAGE TEST SCORES?

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

| OPTION 1 | OPTION 2 | OPTION 3 | OPTION 4 | OPTION 5 | OPTION 6 | OPTION 7 |
|-------------------------------------|--|--|-------------------------------------|--|--|--|
| 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; subscore results must be submitted. | 75% overall in 400 levels, 75% academic, 75% oral, 75% writing |

Q&A

WHAT'S AN ADMISSION INFORMATION FORM?

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

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

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

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

WHAT IF MY ENGLISH LANGUAGE TEST SCORES ARE TOO LOW?

If you're academically admissible but don't quite meet our English language requirements, you may be offered conditional admission through Waterloo's Bridge to Academic Success in English (BASE) program. Learn more on page 18.

TUITION AND SCHOLARSHIPS

Hard earned,
well spent.

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

uwaterloo.ca/future/financing

ENTRANCE SCHOLARSHIPS

\$1,000

MERIT SCHOLARSHIP
85–89.9% admission
average

\$2,000

**PRESIDENT'S
SCHOLARSHIP**
90–94.9% admission
average

up to
\$5,000***

**PRESIDENT'S
SCHOLARSHIP OF
DISTINCTION**
95%+ admission
average

\$10,000

**INTERNATIONAL STUDENT
ENTRANCE SCHOLARSHIPS**
Awarded based on academic
performance, contest or
assignment scores, and Admission
Information Form submissions



96%

of international students received
an entrance scholarship in fall 2021

TUITION FEES

FOR TWO ACADEMIC TERMS IN \$CAD*

| PROGRAM/FACULTY | INTERNATIONAL TUITION (STUDY PERMIT) |
|--|---|
| Accounting and Financial Management**, Arts, Health | \$48,000 |
| Architecture | \$65,000 |
| Biotechnology/Chartered Professional Accountancy | \$47,000 |
| Business Administration (Laurier) and Mathematics (Waterloo) Double Degree | \$53,000 |
| Computer Science, Business Administration (Laurier) and Computer Science (Waterloo) Double Degree | \$66,000 |
| Computing and Financial Management** | \$53,000 |
| Engineering, Software Engineering | \$66,000 |
| Environment, Sustainability and Financial Management | \$45,000 |
| Global Business and Digital Arts | \$50,000 |
| Mathematics, Mathematics/Financial Analysis and Risk Management, Mathematics/Business Administration | \$53,000 |
| Mathematics/Chartered Professional Accountancy | \$51,000 |
| Science | \$47,000 |

Notes: Amounts listed include incidental fees. Co-op fee of \$745/term also applies. See the website for details. *Fees based on 2022–2023 tuition rates. Fees subject to change. **Tuition is significantly higher in your upper years. ***\$2,000 awarded in first year, plus up to \$3,000 in upper years.

EARN WHILE YOU LEARN

Co-op students earn \$8,400–\$15,000+ in their first work term in Canada. These co-op earnings can go a long way to helping pay tuition fees and living expenses. Alternatively, you may choose to work part time on your study visa.* Our provincial minimum wage is \$15.50 per hour.

*Exceptions apply. Visa details are available at www.canada.ca.
Co-op students must have a work permit.

LIVING EXPENSES (FOR TWO ACADEMIC TERMS IN \$CAD)



RESIDENCE

From \$6,128 (traditional style double room)
to \$8,155 (suite style).



MEAL PLAN

From \$5,050 (lite) to \$5,850 (hearty).



PERSONAL EXPENSES

\$3,600 on average (\$450/month).
Expenses may include phone, laundry,
clothing, Internet, personal care, and
entertainment; depends on your lifestyle.



BOOKS AND SUPPLIES

Most programs estimate \$2,370
(\$4,225 for Architecture students).



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.

TAKE THE NEXT STEP

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

uwaterloo.ca/future/visit

YOURS TO EXPLORE

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

3 SATELLITE CAMPUSES
in Cambridge, Kitchener, and Stratford

33,026 UNDERGRADUATE STUDENTS;
48% female, 21% international

BUILDING LEGEND

- SS** STUDENT SERVICES
- RES** RESIDENCES
- UC** UNIVERSITY COLLEGES
- ARTS** ARTS
- ENG** ENGINEERING
- ENV** ENVIRONMENT
- HLTH** HEALTH
- MATH** MATHEMATICS
- SCI** SCIENCE

CAMPUS MAP



IMPORTANT CONTACTS

GENERAL QUESTIONS

519-888-4567, ext. 43614

askus@uwaterloo.ca

QUESTIONS ABOUT APPLYING?

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

OTHER WATERLOO CONTACTS

APPLICATION CHECKLIST

Your guide to full-time undergraduate studies at Waterloo.

uwaterloo.ca/future/apply



1. DOWNLOAD WORKSHEET AND ORDER BROCHURES

Download our helpful *Applying to Waterloo* worksheet along with detailed information about our programs.

uwaterloo.ca/future/order



2. APPLY ONLINE

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

ouac.on.ca



3. LOG IN TO QUEST

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



4. SEND US YOUR DOCUMENTS

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

uwaterloo.ca/future/documents



5. COMPLETE YOUR ADMISSION INFORMATION FORM

Some programs may also require an interview, portfolio, or other elements. Check the admission charts for details.



6. WAIT TO HEAR FROM US

To help pass the time, read tips from Waterloo students about choosing a university program, admissions, and more!

uwaterloo.ca/future/tips

YOU+WATERLOO

Our greatest impact happens together

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

uwaterloo.ca/future-students



EduCanada
A world of possibilities
Un monde de possibilités

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 100% post-consumer fiber, is manufactured using renewable energy and is Forest Stewardship Council® (FSC®) certified.