DISCOVER YOUR STORY IN ENVIRONMENT
Nurture your nature.

Join the global movement advocating for a greener, more sustainable world — whatever your #earthgoals. Get outdoors and protect vulnerable ecosystems. Command a boardroom and make environmentally responsible business decisions. Design livable communities close to home, or work toward economic equality overseas. How do you want to leave your (eco-friendly) mark on the world?

Let’s explore your story in the Faculty of Environment at Waterloo.

10 DIRECT ENTRY PROGRAMS
Gain specialized skills from day one

TOP 5 IN CANADA
for Environmental Sciences
(QS 2021 World University Rankings)
MANY PATHS TO POSITIVE IMPACT

MICHELLE, SECOND YEAR ENVIRONMENT AND BUSINESS STUDENT

If you have diverse interests, the Faculty of Environment gives you the freedom to explore them. For Michelle, the breadth and variety of programs are part of what inspired her to study Environment at Waterloo.

“There’s no right way to be an Environment student. It’s reflected in the variety of programs offered. So, there are people who are interested in aviation, or geography, or ecology, or – like me – business. But they’re all united by one common goal: to make the world a better place.”

MORE TO EXPLORE

Meet us online for more tips and stories:

envwaterloo
Prospective students are advised that offers of admission to a new program may be made only after the university’s own quality assurance processes have been completed and the Ontario Universities Council on Quality Assurance has approved the program.
WELL SUSTAINED

MUJTABA, WATERLOO GRADUATE ’14, ’16

When Mujtaba was in high school, things seemed bleak. Between the economy and the environment, it seemed the entire future was on the brink of disaster. “That’s when I realized sustainability was the only way forward,” says Mujtaba, who’s since completed his masters in climate change at Waterloo, and now works to help farmers and small businesses in developing countries become successful through sustainable practices and technologies. “We focus on making it easier for women, youth and those in marginalized communities to become leaders in both their communities and environmental practices.”

Climate science for climate solutions.

Get ready to tackle the climate crisis. In this program you’ll gain deep scientific knowledge of the climate system, the water cycle, ecosystems and land use change and the steps communities are taking to respond to this complex challenge. You’ll master practical tools like computer modelling and hone the skills to build a low-carbon future. Combine classroom learning with hands-on experience in labs and fieldwork (and paid work experience through the co-op option).

SAMPLE COURSE TOPICS

Physical climatology, Earth’s future climates, hydrology, ice sheets and glaciers, societal adaptation to climate change, climate services, climate change communication, low carbon transition

FUTURE CAREERS

Climate modeller, climate risk scientist, policy analyst, carbon market analyst, renewable energy specialist, environmental consultant

SPECIALIZATIONS

Aviation

Economy and Society

Geomatics

CLIMATE LEADERSHIP

first university in Canada to offer a climate change degree (MCC)
ENVIRONMENT AND BUSINESS

BACHELOR OF ENVIRONMENTAL STUDIES
CO-OP ONLY

MAKE INDUSTRY CONNECTIONS
Partner with a private sector company to advise on sustainability
Smart businesses understand the role of sustainability in securing long-term growth and a better world. Through classwork and co-op, Environment and Business equips students like Okeoghene with the experience to bridge environmentalism with the bottom line. “I want to build more resilient, future-focused businesses that spur positive change through sustainability,” she says. “Change begins, and ends, with people. You need to understand both sides.”

Eco-warrior, meet business mogul.

To influence organizations big and small, you have to speak the languages of a business mogul and an eco-warrior. With a degree in Environment and Business, you’ll stand out to future employers with your business acumen and understanding of environmental issues. You’ll gain expertise in stakeholder engagement, industrial ecology and environmental decision-making while developing core business skills in finance, project management, accounting, marketing and law.

**SAMPLE COURSE TOPICS**
Environmental management systems, ecological economics, social marketing, industrial ecology, microeconomics, accounting for managers

**FUTURE CAREERS**
Business analyst, marketing manager, corporate responsibility specialist, sustainability manager, environmental consultant

**APPLY THESE SKILLS**
- Develop business plans for green energy firms
- Analyze the environmental records of a Fortune 500 company
- Help businesses reduce their ecological impact

**ONLY PROGRAM OF ITS KIND**
in North America
ENVIRONMENT, RESOURCES AND SUSTAINABILITY

BACHELOR OF ENVIRONMENTAL STUDIES
CO-OP AVAILABLE

EXPLORE YOUR INTERESTS
Enhance your degree with a second major, a minor, or option

WORK ONE ON ONE
with a professor on an eight-month honours thesis project
No planet B.

Complex problems need to be looked at from different angles. In Environment, Resources and Sustainability (ERS), you’ll combine insights from the natural and social sciences to help solve some of the world’s biggest environmental and sustainability challenges, from water and food security to ecosystem conservation and restoration. Explore the interactions between people and nature that lie at the heart of social-ecological challenges and learn to find solutions that help us navigate towards a sustainable future.

**SAMPLE COURSE TOPICS**
Applied ecology and restoration, environmental governance, research methods, food and agriculture, sustainability

**FUTURE CAREERS**
Environmental project manager, sustainability consultant, conservation specialist, environmental scientist, policy advisor, environmental consultant

**EARN DIPLOMAS**
- Environmental Assessment
- Ecological Restoration and Rehabilitation

**APPLY THESE SKILLS**
- Analyze environmental data
- Evaluate environmental policies and programs
- Protect and restore ecosystems

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**AUDIO ADVOCACY**

ASHOKE  
FIFTH-YEAR ERS STUDENT

While volunteering in his community, Ashoke saw a serious disconnect between the climate change research he read for class, and how that information was shared with the public.

That’s why he created the *I Speak 4 The Trees* podcast. “It’s about making environmental issues and solutions more accessible so that everyone can get involved,” he says. “We can have a culture shift where we can live more sustainable lives, without compromising our personal freedoms and comforts.”
PROGRAMS

GEOGRAPHY AND AVIATION

BACHELOR OF ENVIRONMENTAL STUDIES
REGULAR ONLY
Imagine flying a plane. Now imagine what it feels like the first time you take off, on your own, with nobody else onboard. “It was beyond nerve-racking!” says Urooj. But moments before takeoff, she felt a wave of confidence. “I said to myself, ‘I can do this!’”

Now, Urooj wants everyone with a passion for flight to know they can experience this feeling. “Every year I see more women and minorities becoming interested in aviation,” she says. “That’s one of the reasons I volunteer and join so many clubs and organizations. I want to continue breaking down barriers.”

Reach new heights.

Explore aviation as a geographer and a pilot. You’ll earn your degree while completing the flight training needed to acquire your commercial pilot licence, including multi-engine and instrument ratings. Between the cockpit and classroom, you’ll explore landforms, weather patterns, and the computer technology behind tools such as geographic information systems (GIS) and remote sensing.

**SAMPLE COURSE TOPICS**

Geography and human habitat, human factors in aviation, aviation safety, designing effective maps, physical climatology, geographic information systems

**FUTURE CAREERS**

Pilot, first officer, flight instructor

**SPECIALIZATIONS**

- Climate Change and Environment
- Earth Systems Science
- Geomatics
- Economy and Society

**ACCESS 30+ AIRCRAFT**

through Waterloo Wellington Flight Centre
GEOGRAPHY AND ENVIRONMENTAL MANAGEMENT

BACHELOR OF ENVIRONMENTAL STUDIES
CO-OP AVAILABLE

ARCTIC ADVENTURE

CASSANDRA 
GEM GRADUATE, ‘21

Climate change, sustainability, people and population growth – at Waterloo, Geography and Environmental Management students take on some of the world’s biggest challenges by going beyond the classroom and experiencing first hand how we shape the planet – and how the planet shapes us.

“People assume geography is about looking at maps. However, it’s more about the forces that shape the physical landscape and how that directly impacts people.” says Cassandra, who travelled through Nunavut and Greenland with 14 classmates as part of the Arctic Field Course.

EXPLORE YOUR INTERESTS
Enhance your degree with a second major, a minor, or option
Join the movement, meet the moment.

Geographers have a long tradition of exploring how human and physical environments are constantly changing. In Geography and Environmental Management (GEM), you’ll learn the advanced technical skills required to help solve many of the most pressing issues of our time, such as climate change; the impact of environment on health; water and land resource management; global population growth; urban development, and more.

SAMPLE COURSE TOPICS

Water quality and management, snow and ice, wetlands, food systems, geographic information science, economic geography and inequality, health geography, the digital economy, climate change

FUTURE CAREERS

Policy and economic advisor, environmental management consultant, geographic information systems (GIS) technician, environmental scientist, teacher, planner

SPECIALIZATIONS

- Aviation
- Climate Change and Environment
- Economy and Society
- Earth Systems Science
- Geomatics

TOP 5 in Canada for Geography (2021 QS World University Rankings)
PROGRAMS

GEOMATICS

BACHELOR OF ENVIRONMENTAL STUDIES
CO-OP AVAILABLE

DEVELOP SOFTWARE APPS
and pitch them to real businesses

Add four courses to earn a
COMPUTING MINOR

UNIVERSITY OF WATERLOO
Geotag, you’re it!

More than 80 per cent of the world’s information has a location component to it. Geomatics combines computer science with geographic data analysis. You’ll learn to use tools such as remote sensing, unpiloted aerial vehicles (UAVs), global positioning receivers and more, to collect spatial data and analyze it using geographic information systems, spatial statistics, and cutting edge software. Plus, you’ll learn the fundamentals of software design at one of the world’s top computer science schools.

SAMPLE COURSE TOPICS
Spatial analysis, computer programming, statistics, surveying, database development, UAV use, enterprise information technology, web development

FUTURE CAREERS
Data engineer, research analyst, GIS developer, web developer, junior remote sensing and lidar analyst

SPECIALIZATIONS
- Aviation
- Climate Change and Environment
- Economy and Society
- Earth Systems Science

APPLY THESE SKILLS
- Help businesses determine where to expand
- Track the incidence of disease to support public health
- Plan land use and transportation routes
INTERNATIONAL DEVELOPMENT

BACHELOR OF ENVIRONMENTAL STUDIES
REGULAR ONLY

TOP 5 in Canada for Development Studies
(2021 QS World University Rankings)
Be a catalyst for change.

Assist communities by tackling problems of economic inequality, social injustice and environmental change. On campus, you’ll explore topics like international development, environmental studies, social sciences and languages, including access to more business courses than in any other international development program in Canada.

**SAMPLE COURSE TOPICS**

Economics, culture and ethics, cities and development, social entrepreneurship, planning, problem-solving for development

**FUTURE CAREERS**

Senior development officer; educational programming co-ordinator; program manager; emergencies and humanitarian assistance; senior analyst, policy; marketing and communications officer.

**SPECIALIZATIONS**

- **PRACTICE**
  
  In your fourth year, work overseas with not-for-profit organizations to apply what you’ve learned in the classroom in a real-world context during an eight-month placement. We’ll help match you with a partner development organization.

  **SAMPLE PLACEMENTS**
  
  › Uganda Small Scale Industries Association (USSIA), Kampala, Uganda
  › Purple Innovation, Mzuzu, Malawi
  › Centre for Sustainable Rural Development, Hanoi, Vietnam

- **RESEARCH**
  
  Select this specialization to work on a thesis in your final year. You’ll also complete a self-organized community service requirement with an organization in Canada or internationally.

  **SAMPLE HOST ORGANIZATIONS**
  
  › Kitchener-Waterloo Multicultural Centre
  › Global Youth Volunteer Network
  › Ontario Council of International Cooperation
Solving complex, real-world problems means thinking beyond majors and minors. KI promotes the value of cross-disciplinary collaboration throughout its core courses, culminating in a three-part exhibit design course. After a trip abroad to experience European museums first hand, Victoria and her classmates used their brains – and brawn – to design and build their own public exhibits.

“Building a museum exhibit is rewarding, but it’s the lessons in research and design thinking, communication, project management and collaboration that were most valuable. That’s what KI is about.”
Arts and science evolved.

Real-world problems transcend disciplines and specialties. Whether you work at a startup or a global corporation, as a scientist or creative professional, as a project manager or CEO, today’s workplaces need forward thinkers. Knowledge Integration (KI) gives you a foundation across the arts and sciences, along with the flexibility to follow your own interests and career goals. Pursue a traditional area of focus or create one that is uniquely yours.

SAMPLE COURSE TOPICS
Collaboration, design thinking and problem solving, communication, languages, probability and statistics, conflict management, computer science, critical thinking

FUTURE CAREERS
User experience designer, data scientist, speech language pathologist, consultant, medical doctor

SPECIALIZATIONS
Collaborative Design
Science, Technology, and Society

DESIGN YOUR EDUCATION
Add a double major, minor, or option

ONLY PROGRAM OF ITS KIND
in Canada
PLANNING

BACHELOR OF ENVIRONMENTAL STUDIES
CO-OP ONLY
“As social, economic and environmental challenges become bigger, the role of the planner becomes increasingly important,” says Jacklyn. From climate change to accessibility to building sustainable communities, planners help shake up the built environment through insights and actions. “You need to be motivated to address complex issues – what we call ‘wicked problems’ – in both theory and practice. It’s not enough to just think about it. You need to make it happen.”

Jacklyn did just that on her co-op term with Habitat for Humanity, where she worked on a townhouse complex for low-income families.
NEW

SUSTAINABILITY AND FINANCIAL MANAGEMENT

BACHELOR OF SUSTAINABILITY AND FINANCIAL MANAGEMENT
CO-OP ONLY
FOR THE GREENER GOOD

DILLON
FOURTH-YEAR WATERLOO STUDENT

It’s never too early to start your first business venture. While still in high school, Dillon launched PickWaste – a non-profit organization that leads weekly litter clean-ups. “The small action of cleaning the community grew into a national movement,” he says. Today the team is 400+ volunteers strong, and has filled more than 2,000 bags of trash.

Now, he’s sharing his story and inspiring fellow budding entrepreneurs. “This initiative exposed me to the world of social impact and entrepreneurship. I now have the opportunity to speak across North America to students about leadership and community impact.”

Redefine the bottom line.

Become a sought-after leader who incorporates people, profits and the planet into the bottom line. Through this one-of-a-kind program, you’ll fuse knowledge of accounting and financial management principles from Waterloo’s School of Accounting and Finance with the Faculty of Environment’s expertise in business and sustainability. Plus, you’ll get up to 16 months of paid on-the-job experience in this co-op-only program.

SAMPLE COURSE TOPICS

Corporate taxation, communications for environmental professionals, sustainability economics, enterprise carbon accounting, sustainability and business ethics, social and human capital accounting

FUTURE CAREERS

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

SPECIALIZATIONS

Government Policy and Financial Markets
Corporate Sustainability

KICKSTART YOUR CREDENTIALS

Your direct route to a CPA or CFA
Park your wheels before class.

Grab breakfast at St. Paul's University College.

Examine specimens.

Your environment should inspire you.

From our LEED® Platinum-certified building to campus-wide greening initiatives, the Environment student community makes its vision for a sustainable future a reality.

Review lecture notes.
Ecology Lab

You’ll get to know the Ecology Lab well as an Environment student. Your one-stop resource centre, it supports lab and field studies, courses, and projects. Ecology Lab experts share their knowledge in species identification, water and soil analysis, gardening, and more through hands-on workshops and events.

1,500+ SPECIMEN COLLECTION

150+ HECTARES
of outdoor learning spaces and gardens
Study abroad

Shake up your scenery and add some adventure to your degree. Go on exchange to one of 70+ universities around the world where you’ll study, explore and play in third or fourth year.

SAMPLE DESTINATIONS
1. University of Queensland, Australia
2. University of Birmingham, United Kingdom
3. University of Lausanne, Switzerland
4. National University of Singapore, Singapore
5. Tohoku University, Japan
6. University of Graz, Austria
7. Trinity College Dublin, Ireland
8. Tilburg University, Netherlands
9. Seoul National University, South Korea
10. Lund University, Sweden

GLOBAL EXPERIENCE CERTIFICATE

Position yourself as a leader in internationalization, at home and abroad. Earn recognition for your travels with a Global Experience Certificate.

uwaterloo.ca/sso/gec
DESIGN STUDIO
Create a model cityscape.

EV3 ATRIUM
Volunteer with the ENV community.

MAD LAB
Create your own projects in our makerspace.

RING ROAD
Master surveying and measurement techniques.

LAUREL CREEK
Get knee-deep in field research.

FIELD COURSE
Explore the impact of climate change in the Arctic.
A WORLD OF EXPERIENCE

Environment students don’t just sit in classrooms waiting for the world to change – they take real action. Through labs, field courses, placements, international exchanges or co-op terms, you’ll gain hands-on experience before graduation.

CO-OP
Alternate study terms with paid work terms and gain up to 20 months of work experience by the time you graduate.

CO-OP SEQUENCE

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REGULAR, WITH AN EDGE
No co-op? No problem. Pair the consistency of September to April study and summers off with our experiential education certificate program, EDGE.

Register for EDGE to develop professional skills, explore career options, and market yourself to employers.

TURU IDEAS INTO ACTION

E @ E
Entrepreneurship at Environment (E @ E) is a group of mentors dedicated to student success in developing their startup businesses and innovative ideas. Come check out our dedicated workspace in Environment 2.

GreenHouse is an innovation community for students who have ideas to generate social or environmental change. The program helps develop incoming students’ ideas in order to make a real difference in the world. All students can apply to be Innovators in Residence at St. Paul’s University College.

8.4/10 Environment student work term satisfaction

410+ Employers hiring environment co-op students

$8,400-$15,600+ potential earnings per co-op term
FUND YOUR PASSION

DEAN OF ENVIRONMENT’S SCHOLARSHIP FOR EXCELLENCE: $7,500

Up to four scholarship winners are selected based on academic excellence (85 per cent or higher), demonstrated leadership and a passion for the environment.

FACULTY OF ENVIRONMENT STUDENT ENGAGEMENT AWARD: $2,000

Up to 20 recipients are selected based on their previous volunteer, leadership and/or sustainability-related activities in their communities.

MICHAAELLE JEAN SCHOLARS: UP TO $10,000

Named for the former Governor General and current Chancellor of St. Paul’s, up to three International Development students will be selected for this prestigious honour.

uwaterloo.ca/env/scholarships

CUSTOMIZE YOUR DEGREE

Add additional areas of study through minors, options and diplomas. Or, add one of your program’s specializations to tailor your degree to your career goals and interests. Find out more in the undergraduate calendar.

MINORS
- Environment, Resources and Sustainability
- Geography and Environmental Management
- International Development
- Knowledge Integration
- Parks
- Tourism
- Urban Studies

OPTIONS
- Business

DIPLOMAS
- Ecological Restoration and Rehabilitation
- Environmental Assessment
- Excellence in Geographic Information Systems
- Sustainability

SPECIALIZATIONS
See the program pages for available specializations.

URBAN STUDIES MINOR

As more of the world’s population moves to cities, learn how to lead the transition to an increasingly urbanized world. Explore issues in urban finance and economics, urban activity and the environment, urban societies and emerging global urban regions.

ADMISSIONS

Six Grade 12 U or M courses, including the specific courses listed

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<th>PROGRAM</th>
<th>REQUIRED COURSES</th>
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<td>Climate and Environmental Change</td>
<td>Grade 12 U English (minimum final grade 70%)</td>
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<td>Any Grade 12 U Mathematics (minimum final grade 70%)</td>
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<td>Recommended course: Biology, Earth and Space Science or World Issues</td>
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<td>Environment and Business</td>
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<td>Environment, Resources and Sustainability</td>
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<td>Geography and Aviation</td>
<td>English (ENGL4U) (minimum final grade of 70% is required)</td>
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<td>One Grade 12 U Mathematics course (minimum final grade of 70% is required)</td>
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<td>ADDITIONAL REQUIREMENTS: Program Information Session and Transport Canada Category 1 Medical Certification.</td>
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<td>Geography and Environmental Management</td>
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<td>Completion of the AFM Admissions Assessment, which is an online assessment of communication and collaboration competencies.</td>
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ENVIRONMENT LIVING-LEARNING COMMUNITY

Looking for a small, close-knit community on campus? Live and learn at St. Paul’s University College where you’ll connect with students who share your passion for sustainability (you’ll also make it to class in less than three minutes!)
The University of Waterloo acknowledges it is situated on the Haldimand Tract, land granted to the Haudenosaunee of the Six Nations of the Grand River in the Haldimand Treaty of 1784. The Haldimand Tract and surrounding area, including our Stratford campus, is the traditional territory of the Attawandaron, Anishinaabeg, and Haudenosaunee.