



## nere **WATERLOO IS** RANKED AS ONE OF THE WORLD'S ELITE **QS WORLD UNIVERSITY CANADA'S MOST INNOVATIVE UNIVERSITY** FOR 24 YEARS IN A ROW MACLEAN'S 2016 UNIVERSITY RANKINGS

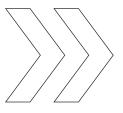
#### Discover your future at the University of Waterloo – in the heart of Canada's technology triangle

I invite you to join our community of worldclass scientists at the University of Waterloo. International collaborations, which include 31 university 2+2 partnerships in China alone, have helped us earn the reputation of being Canada's most innovative university. The Science 2+2 program is an ideal way for you to combine your strengths in science with your interest in experiencing Canadian culture firsthand. Your first 2 years in China gives you a firm foundation in your studies to succeed in your last 2 years at the University of Waterloo. Our 2+2 graduates consistently demonstrate superb academic performance, valued contributions in cutting-edge research projects, and a competitive edge in the international job market. I encourage you to find out more about this program and hope to see you on our campus in the near future.

- BOB LEMIEUX, Dean of Science

"What's happening here in Waterloo is truly special – a dedication to the kind of deep, fundamental science that will benefit generations to come."

- STEPHEN HAWKING



## canada's most innovative university

### benefit from our world-class reputation

- » QS Stars 5+ highest rating for international universities
  - Quacquarelli Symonds World University Rankings 2015



- » Best Overall University in Canada
  - Maclean's University Rankings 2015



The "2+2" experience at Waterloo helped me greatly in improving my communication skills in English, my understanding of North American culture, and my overall personal growth. It also provided me with a great platform and boosted my confidence in pursuing a career in academia. More importantly, it was a fun adventure and I would do it again in a heartbeat!

 LIU XIAOMING, class of 2005, Assistant Professor, University of North Carolina at Chapel Hill







#### an ideas place

At the forefront of ideas that's where you'll find the Region of Waterloo.

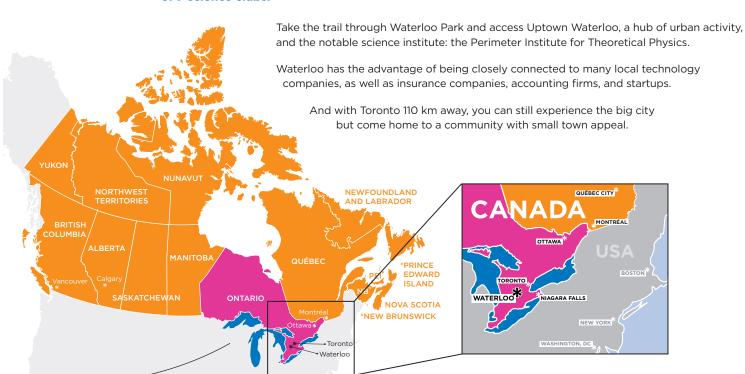
Ranked among the top startup hubs in the world, the Region is focused on the future of technology, innovation, and entrepreneurship. It's home to Velocity – a startup incubator funded in part by the University of Waterloo, that's launched more than 70 companies in 5 years.

You and your ideas will be right at home here.





The Waterloo campus and surrounding community is safe, lively, and a great place to live. The campus feels like a town of its own. Enclosed within Ring Road, everything you need – food, study spaces, classrooms, international student services, and more – is no more than a 15-minute walk away. There are countless ways to get involved. Choose from over 200 campus clubs or join one of 7 science clubs.



## why science 2+2 at Waterloo?



#### designed for success

2 years in your home university, plus 2 years at the University of Waterloo



#### more for your money

2 years of study in Canada reduces international education expenses by approximately 50%



#### earn 2 degrees

graduate with 2 honours bachelor degrees from the University of Waterloo and your home university



#### graduate with an edge

studying abroad makes you more competitive in the international job market



#### experience a Canadian

university education



#### choose from 13

programs in 5 different areas



outstanding international student support services

uwaterloo.ca/find-out-more/ international-students/support-services



#### volunteer opportunities

get experience for your career



#### real world experience

work-study programs give you opportunities to work with researchers while getting paid



#### conduct research

projects with professors and researchers



#### international students

can work in Canada for up to 3 years after graduation, gaining international work experience



#### Science brings in over \$60 million per year in research funding -

the highest among all Waterloo faculties



#### Waterloo grads launch

many world-class companies such as BlackBerry and Google Adwords





#### **MATERIALS AND NANOSCIENCES**

Learn to harness the power of physics and chemistry to develop new nano-sized solutions for society in a region that's known as Canada's Silicon Valley.

**Sample courses:** Computational Chemistry, Nanophysics, Transition Element Compounds and Inorganic Materials

Career possibilities: materials scientist, nanotechnologist, materials process specialist

#### **SCIENCE AND BUSINESS**

This one-of-a-kind program in Canada provides a strong foundation in science, along with courses in accounting, economics, marketing, computing, statistics, and human resources. Get the best of both worlds and graduate with a special degree. Become a scientist with solid business and presentation skills or a business professional who speaks the language of science.

**Sample courses:** Organizational Behavior, Technology Development Workshop, Accounting Information for Managers

Career possibilities: project manager, business analyst, business consultant

WATERLOO CHEMISTRY
RANKS IN THE
TOP 5 IN CANADA

AND WITHIN THE TOP

- ACADEMIC RANKING OF WORLD UNIVERSITIES (ARWU), 2015

#### TOP 5 IN CANADA AND TOP 100 WORLDWIDE

ENVIRONMENTAL SCIENCES

- QS WORLD UNIVERSITY SUBJECT RANKING 2015



#### **BIOCHEMISTRY**

Concentrated biology and chemistry courses, along with extensive lab experience, will prepare you for a career in forensic science, pharmaceuticals, medical diagnostics and analysis, agriculture, biochemical research, microbiology, biotechnology, or genetic engineering.

**Sample courses:** Fundamentals of Metabolism, Analytical Chemistry, Biochemistry of Natural Products

**Career possibilities:** toxicologist, biomaterials researcher, health care professional

#### **BIOLOGY**

Study the workings of living organisms, where they originate, and how they evolve and function, gaining insight into our understanding of life.

**Specializations:** Animal Biology, Environmental Biology, Microbiology, Biotechnology, Plant Biology, Molecular Genetics.

**Sample courses:** Microorganisms in Foods, Ecosystem Ecology, Diversity of Life

**Career possibilities:** biologist, veterinarian, environmental consultant, physician, pharmacist, optometrist

#### **BIOMEDICAL SCIENCES**

Get ready for your career in health with this flexible program that provides the foundation and experience required to succeed in virtually any professional health program in North America.

**Sample courses:** Human Anatomy, Biology of Human Aging, Cell Biology of Human Disease

Career possibilities: pharmacist, optometrist, physician

#### **CHEMISTRY**

In one of Canada's top 5 chemistry programs, you'll learn from leading experts with industry connections, work with advanced chemical instrumentation, and participate in cutting-edge research. Accredited by the Canadian Society for Chemistry and the Chemical Institute of Canada.

**Specializations:** Chemical Physics, Materials Chemistry, Computational Chemistry, Geochemistry

**Sample courses:** Multi-Component Analysis, Quantum Molecular Dynamics, Organic Electronic Materials Synthesis

**Career possibilities:** analytical chemist, chemistry patents agent, forensic scientist

#### **EARTH SCIENCES**

Explore the world under your feet in close-knit classes taught by professors known internationally for their geology and water research. Learn about the rocks and soils, surface and ground water, and current and prehistoric life that have shaped our incredible planet. Apply your knowledge through hands-on labs and field research at geological hotspots across Canada and in places like Iceland and Peru.

**Specializations:** Geology, Geophysics, Hydrogeology

**Sample courses:** Chemical Hydrogeology, Volcanology and Igneous Petrology, Earth from Space Using Remote Sensing

**Career possibilities:** hydrogeologist, geologist, geophysicist



#### **ENVIRONMENTAL SCIENCE**

Ranked among the top 5 in Canada, this program provides learning in the lab and field, giving you a scientist's perspective on ecological and geological systems. You'll also have the option to specialize in ecology or geoscience. Accredited by the Association of Professional Geoscientists of Ontario.

Specializations: Ecology, Geosciences

**Sample courses:** Environmental Toxicology, Environmental and Sustainability Assessment, Applied Wetland Science

**Career possibilities:** geoscientist, ecologist, environmental consultant

#### **HONOURS SCIENCE**

Design your own degree. If you're still exploring which sciences intrigue you the most, take Honours Science and switch to a more specialized program like Chemistry or Biology later. Or, you can keep the program general, becoming an interdisciplinary scientist by taking electives in Science and other faculties.

**Sample courses:** Cell Biology, The Physics of How Things Work, Geochemistry

**Career possibilities:** physician, optometrist, pharmacist, genetic counsellor, teacher

#### **MATHEMATICAL PHYSICS**

Prepare for careers that explore the theoretical foundations of quantum technologies to the mathematically intensive unified theories of nature. This program is similar to the Physics program, but with an emphasis on the mathematical and theoretical sides of physics.

**Sample courses:** Particle Physics, Quantum Theory, Statistical Physics

**Career possibilities:** theoretical physicist, data scientist, quantitative analyst

#### **PHYSICS**

Physics is about understanding how the universe works – from quantum particles, quantum computing, and condensed matter, to Einstein's 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.

Specializations: Applied Physics, Astrophysics

**Sample courses:** Quantum Physics, Modern Physics Laboratory, Quantum Information Processing

**Career possibilities:** physicist, research and development scientist, physics teacher

#### PHYSICS AND ASTRONOMY

From black holes to the Big Bang, astronomers study the most fascinating phenomena in the universe. Learn from professors who are using satellites and telescopes to explore space. Prepare for careers in astrophysics and space science, or for graduate studies in astronomy or physics.

**Sample courses:** Introduction to the Universe, Computational Physics, Cosmology

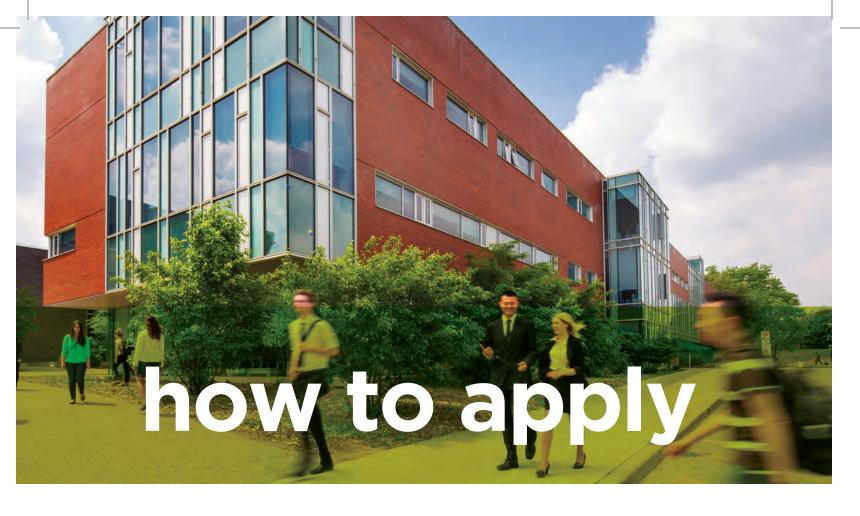
**Career possibilities:** astronomer, aerospace scientist, remote sensing scientist

#### **PSYCHOLOGY**

Explore the mind in one of North America's top psychology departments. Study a range of disciplines – neuroscience, cognition, clinical, developmental, and social. A BSc in psychology will prepare you for further training in medicine, speech pathology, or other health-related fields.

**Sample courses:** Human Cognitive Neuroscience, Organizational Psychology, Research in memory

**Career possibilities:** neuroscientist, child psychologist, psychiatrist



#### **Applicants must:**

- » Be currently enrolled in year 2 or 3 in a 2+2 program partner university with a major related to one of the following areas: biology, chemistry, earth science, environmental sciences, physics, or psychology.
- » Have an average of 70% or more in major required courses.
- » Demonstrate sufficient financial means to study at the University of Waterloo.

#### **Application procedure**

- » Take the University of Waterloo's English language exam and attend an interview.
- » Complete the online Application for Admission.
- » Mail application documents to the University of Waterloo.
- » Obtain an admission decision by email in April.

#### **Required application documents**

- » A printed copy of your completed application.
- » Your current official university transcript.

- » A certified copy of your official Senior High School Graduation Diploma.
- » A certified copy of your official National University Entrance Exam result.
- » A copy of your CET4/TOEFL/IELTS scores if you have taken any of these tests.

#### English language exam and interview

Each fall (October to December), Waterloo's Faculty of Science will send a certified examiner to each partner university to assess the English proficiency of Science 2+2 applicants with a written test and personal interview. Admission decisions will be made based on both your English test score and academic standing. For more information on the English test, see <a href="https://www.uwaterloo.ca/science-2-plus-2/future-students/english-test">uwaterloo.ca/science-2-plus-2/future-students/english-test</a>.

#### **Transfer credits**

The University of Waterloo will grant transfer credits for the first 2 years of course work to participating students who obtain marks that are at, or above, 60% in courses at the partner universities. Only courses that qualify as either core or elective in the relevant programs at Waterloo will be considered for transfer.

Maximum transfer credits allowed: 10 lecture credits (20 courses), plus any transferable labs.

## financing your education

#### Chinese university program award

Each year, the Faculty of Science will offer a certain number of Chinese University Program Awards. You are automatically considered for one of these awards. No application is needed. For more information on student awards and financial aid, see uwaterloo.ca/safa/undergraduate-awards/database.

SCHOLARSHIPS BASED ON THE FIRST 2 YEARS OF UNIVERSITY ACADEMIC STANDING AND UNIVERSITY OF WATERLOO'S ENGLISH LANGUAGE EXAM	VALUE
Chinese Universities Program Awards	\$ 2,000 CAD or 4,000 CAD in your first term

#### **Tuition and fees**

Each term, tuition (including incidentals) is approximately 11,000 CAD\*. Each year, tuition and fees may be subject to minor changes. For more information, please visit **uwaterloo.ca/finance**.

\*Based on 2015 costs

#### Living expenses each term (4 months)

- » Residence: \$4,600-\$6,000 CAD, depending on your residence and meal plan.
- » Off campus: \$3,350 CAD amounts vary depending on your living arrangements.
- » Other costs: \$1,500 CAD for personal expenses (e.g., phone, entertainment, recreation, laundry, clothing). Amounts vary depending on your needs.

See budget calculator at uwaterloo.ca/find-out-more/financing/interactive-budget.



## other ways to finance your education

- » Find a part-time job. You can work on or off campus during your studies. Most part-time jobs pay \$11.25 CAD or more per hour.
- » Work in Canada after graduation. As an international student, you can work in Canada for up to 3 years after graduation to gain experience and pay for your education
- » Get work experience. There are opportunities to work with researchers while getting paid.





















# ideas start here®

#### **CONTACT US**

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