DISCOVER YOUR STORY IN MATHEMATICS, BUSINESS, AND ACCOUNTING
YOU+
WATERLOO

Built for business.

Prepare for any future you choose with math, business, and accounting programs that will boost your career-ready stock. Whether you’re planning for a professional designation, a career in e-business, risk management, or keeping your options open, we have a program for you.

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

EVEN MORE MATH
Looking for more mathematics options? Check out our other brochures or visit:

uwaterloo.ca/future-students/mathematics

TOP 10 IN CANADA
(QS World University Rankings by Subject 2021)
FOLLOW YOUR CURiosity

NAVYA
COMPUTING AND FINANCIAL MANAGEMENT, CO-OP
STATISTICS MINOR

Where do your diverse interests intersect? Navya says, “Studying in the Faculty of Mathematics [and Faculty of Arts] has been an unparalleled opportunity to combine my interests in Computing and Financial Management (CFM). From exploring data science to studying scientific computation, my experience has deepened my ambition, curiosity, and spirit of intellectual inquiry.”

At Waterloo, Navya has been able to take his learning to the next level through a variety of extracurriculars, including working on the WAtonomous Self-Driving Car Project, joining the FinTech Club, being a CFM student mentor, and more.

MORE TO EXPLORE
Meet us online for more tips and stories:

facebook: waterloo.math
instagram: waterloomath
twitter: WaterlooMath
Our many exciting programs let you combine your interests in math, business, and accounting. Discover which option is the best fit for you.
When exploring our programs, think about how many co-op terms you'd like to experience, the number of years you'd like to study, and any professional designations you plan to pursue.

<table>
<thead>
<tr>
<th>System of study</th>
<th>MATHEMATICS/CHARTERED PROFESSIONAL ACCOUNTANCY</th>
<th>BUSINESS ADMINISTRATION AND MATHEMATICS DOUBLE DEGREE</th>
<th>MATHEMATICS/BUSINESS ADMINISTRATION</th>
<th>MATHEMATICS/FINANCIAL ANALYSIS AND RISK MANAGEMENT</th>
<th>INFORMATION TECHNOLOGY MANAGEMENT</th>
<th>COMPUTING AND FINANCIAL MANAGEMENT</th>
<th>BUSINESS ADMINISTRATION AND COMPUTER SCIENCE DOUBLE DEGREE</th>
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<tbody>
<tr>
<td>Total length of program</td>
<td>Co-op only</td>
<td>Co-op only</td>
<td>Co-op or regular</td>
<td>Co-op or regular</td>
<td>Co-op or regular</td>
<td>Co-op only</td>
<td>Co-op only</td>
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<tr>
<td>4 1/3 years (+ optional 2/3 year for MAcc)</td>
<td>5 years</td>
<td>4 2/3 years (co-op)</td>
<td>3 2/3 years (regular)</td>
<td>4 2/3 years (co-op)</td>
<td>3 2/3 years (regular)</td>
<td>4 2/3 years (co-op)</td>
<td>3 2/3 years (regular)</td>
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<tr>
<td>Number of study terms</td>
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<td>Number of work terms</td>
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<td>60</td>
<td>135</td>
<td>Choose in second year</td>
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<td>50</td>
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<tr>
<td>Degree earned</td>
<td>Honours BMath, Co-op (leads to optional MAcc)</td>
<td>Honours BMath, Co-op (Waterloo), Honours BBA (Laurier)</td>
<td>Honours BMath (regular or co-op)</td>
<td>Honours BMath (regular or co-op)</td>
<td>Honours BMath (regular or co-op)</td>
<td>Honours BCFM, Co-op</td>
<td>Honours BCS, Co-op (Waterloo), Honours BBA (Laurier)</td>
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<tr>
<td>Professional designation path</td>
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<td>CPA (Laurier), CFA (Laurier)</td>
<td>CFA/PRM</td>
<td>CFA</td>
<td>CPA (Laurier), CFA (Laurier)</td>
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</table>

**TAKE YOUR APPLICATION TO THE NEXT LEVEL**

Interested in applying to a math, business, and accounting program at Waterloo? Here are some tips.

**TAKE THE CHALLENGE**

Put your mathematical problem-solving abilities to the test and have fun doing it! Participation in contests like the Euclid and/or Canadian Senior Mathematics Contest in your final year of high school can give your application a boost and is required to be considered for scholarships. Find more information and contest dates on page 17.

**GET A JUMP START**

Did you know that Waterloo offers free, open courseware that can teach you new math and programming skills to help you prepare for university? You’ll have access to interactive worksheets, lessons designed by world class instructors, and unlimited opportunities for practice!

**BECOME A WARRIOR FOR THE DAY**

Experience the Waterloo difference first hand! See our facilities, hear from our students, and get a taste of life as a Warrior, through a campus visit or from home. Check out our website for information on in-person and virtual tours, and follow us on Instagram @waterloomath.
CO-OP

EARN AS YOU LEARN

7,100+ employers across the globe

#1 in Canada for experiential learning
(Maclean’s Student Satisfaction Ranking – Comprehensive Universities 2021)
ANITA
FINANCIAL ANALYSIS AND RISK MANAGEMENT, CO-OP

Co-op not only provides invaluable experience to help get your foot in the door of a great company, it also provides windows of opportunity to explore new industries that you might not have considered before. Each work term offers a chance to try out a new role and take your learning down an unexpected and exciting path.

That’s what happened to Anita, who used her co-op terms to explore the rapidly expanding field of data science and discovered a passion for the ethics of artificial intelligence. She had the opportunity to help develop her employer’s first set of ethics guidelines for machine learning algorithm development.

“It was a life-changing experience,” reflects Anita. “I would not have discovered my passion in AI ethics, and ethics in general, if not for the co-op program.”

Get ahead of the competition with experiences that can help you define your future. Waterloo invented co-operative education and remains the global leader today. You can explore potential careers, build your network, and master new skills. You’ll earn a salary, graduate with a top degree, and have up to two years of work experience on your résumé.

HOW CO-OP WORKS
You’ll alternate study and work terms throughout your degree.

WE’RE HERE TO HELP
The Centre for Career Action is there for you every step of the way - whether you choose a co-op or regular program. We can help with everything from polishing your résumé to developing your interview skills and offering advice as you navigate your career path.

EXPERIENCE MATTERS
Waterloo is a global leader in co-operative education. Sample co-op jobs include:

› Consumer intelligence business analyst
› Liquidity management analyst
› Portfolio management intern
› Tax analyst
Inspired to start your own business? If you have an idea, we have the resources to help. Waterloo’s unique entrepreneurial ecosystem includes Concept, our campus pre-incubator for aspiring startup founders.

Each term, Concept awards over $20,000 in funding to students with innovative business ideas. Mathies have pitched great ideas that are as diverse as they are – from food delivery to journaling apps – in front of local entrepreneurs for their chance to win funding to support their business.

Each term, students pitch their business ideas for a chance to win funding to jump start their start up.

YOUR IDEA COULD EARN YOU $5,000!

WATERLOO’S UNIQUE CREATOR-OWNED INTELLECTUAL PROPERTY POLICY:
Any idea you come up with while at the University is 100% yours!
Get on the fast track with one of the most technologically advanced accounting programs in Canada. Accountants increasingly depend on computer technology, statistical procedures for auditing and forecasting, and statistical methods used in data analytics. Mathematics/Chartered Professional Accountancy (Math/CPA) is the only accounting program in Canada leading to a Bachelor of Mathematics (BMath) degree. And, you can focus your studies with our Finance specialization.

**EXPERIENCE THE WATERLOO ACCOUNTING ADVANTAGE**

Because we’re nationally accredited by CPA Canada, Math/CPA students:

- have the opportunity to gain up to 16 months of CPA-approved work experience through co-op work terms to count towards the 30-month practical experience requirement,

- are exempt from the academic requirements of the CPA Professional Education Program upon completion of Waterloo’s eight-month Master of Accounting (MAcc) program.
FINANCIAL ANALYSIS AND RISK MANAGEMENT
JOY is an integral part of WATonomous, Waterloo’s first student-run autonomous vehicle project. As a FARM student, she took charge of securing sponsorship dollars to purchase the materials that WATonomous needs to remain competitive in the ongoing SAE AutoDrive Challenge.

“WATonomous is a group of motivated people working together toward a common goal,” she says. “When you finally get to see how the car navigates after all the work that went into it, it’s a great moment.”

The world of finance requires professionals with business savvy, analytical thinking, and a strong mathematical background. Make your mark with a Chartered Financial Analyst (CFA) or Professional Risk Manager (PRM) designation. Take a combination of courses in mathematics, statistics, and computer science with corporate finance, micro and macroeconomics, and other business-related courses to stand out from the crowd.

CAREER POSSIBILITIES:

- Asset and liability manager
- Portfolio manager
- Financial analyst

Recognized by the CFA INSTITUTE

FARM/PRM Specialization students are eligible for exemption from PRMIA Professional Risk Manager (PRM™) Exams I and II.
Get the advanced quantitative and technical skills needed to stand out in the global marketplace. Courses from Waterloo’s world-class Faculty of Mathematics and Wilfrid Laurier University’s highly respected Lazaridis School of Business and Economics will give you an enviable edge. You’ll also benefit from our 40+ years of partnership with industry to choose from the largest network of employers in North America for co-op jobs, which often lead to careers after graduation.

Bridge the gap between the executive office and the IT desk by showcasing the unique skills you’ll develop in the Information Technology Management (ITM) program. You’ll learn how to create innovative solutions to business-related problems through a mastery of systems analysis, databases, e-business, networks, and management information systems, along with marketing, project management, and business statistics. Talk tech and business to bring two worlds together.

Interested in ITM?
Apply to Mathematics and Business Administration and choose ITM as your major in your second year.
SOPHIE
BBA/MATH, CO-OP

BUSINESS ADMINISTRATION AND MATHEMATICS DOUBLE DEGREE
CO-OP ONLY

Double the possibilities
Sophie balances her analytical and creative sides in her Business Administration and Mathematics Double Degree. The program allows her to explore diverse interests in preparation for beginning an interdisciplinary career.

“When I found out I could do the double degree program at Waterloo, it just made sense to combine the theoretical side of math with its creative applications in business. To me, it’s the best of both worlds.”

Two degrees + five years = endless possibilities. The Business Administration and Mathematics Double Degree will allow you to fast-track your way to the top by simultaneously earning two degrees from two outstanding universities: Bachelor of Business Administration (BBA) from Wilfrid Laurier University’s Lazaridis School of Business and Economics, and Bachelor of Mathematics (BMath) from the University of Waterloo. Build a résumé that stands out to employers and sets the stage for your career in finance, business, or entrepreneurship.

APPLY TO BOTH UNIVERSITIES
We recommend applying to both universities to maximize your chance of admission. The academic programs are identical regardless of which university you call home. The school you’re admitted to will become your home institution and is where you’ll access scholarships, residence, varsity sports, and co-op.

CAREER POSSIBILITIES:
- Chartered Professional Accountant
- Chartered Financial Analyst
- Fellow of the Society of Actuaries
Enrol in the only program in Canada that combines majors in computer science and financial management into one degree. Fintech (financial technology) is a trillion-dollar industry looking for professionals who understand sophisticated financial concepts and have the technical skills to create the software tools that can solve complex problems. If you want to bring innovation to the financial sector, the Computing and Financial Management (CFM) program can help you stand out in the marketplace.
THE FORMULA FOR SUCCESS

KESHAV
COMPUTING AND FINANCIAL MANAGEMENT, CO-OP

If you’re interested in multiple disciplines, you’re not alone. Keshav has always held a dual passion for computer science and finance. When he discovered he could pursue both disciplines simultaneously through Waterloo’s Computing and Financial Management program, his choice of university was clear.

“There is never a dull day while studying at Waterloo. Every class has shown to be a learning opportunity, and there are an endless amount of opportunities to discover your interests. Going above and beyond is the Waterloo way, and my peers and I have embraced that mentality to learn and explore our future career prospects.”

CAREER POSSIBILITIES:
- Business intelligence systems analyst
- Chartered Professional Accountant
- Chartered Financial Analyst

Combine your love of technology with the world of business in a co-op exclusive program. In just five years you’ll earn two degrees – a Bachelor of Computer Science degree from the University of Waterloo and a Bachelor of Business Administration degree from nearby Wilfrid Laurier University. Learn about software development, algorithms and data structures, and artificial intelligence while also sharpening your business knowledge in brand communication, accounting, human resources, marketing, and finance.
FORMING YOUR NETWORK

We want you to thrive at Waterloo.

There are many ways to get involved and make connections! With more than 200 clubs and student groups to join, you’ll be able to build your network and meet other Mathies with similar interests.

“Orientation Week is one of the most blissful parts of first year. While not in the itinerary, getting lost around campus, meeting new people, and sporadic games nights all frequently occurred. The real value of Orientation was the social aspect – meeting new people from other programs and faculties.”

— Keshav

“You get the best programs from each school [Waterloo and Laurier] – your business courses focus on practicing soft skills such as presenting and group collaboration, and your mathematics courses focus on learning the technical and problem-solving skills needed in the workplace today.”

— Victoria

“I am so grateful I had the privilege to be President of the Double Degree Club. The position allowed me to bring together the community and connect students with profs from both schools in events like bowling night! Every double degree is a member!”

— Sophie
RYAN

“Your skill sets are applicable in a lot of careers outside of accounting, finance, or business. It gives you a lot more freedom to explore your career interests and be able to have a skill set that helps in your career of choice.”

AYAAN

“Waterloo really gives you all the opportunities. You want to learn, you want to create something, you want to do something – there is always a resource out there for you to do something like that.”

ROSIE

“MathSoc hands out about 1,400 slices of pie on Pi Day. That is a heck of a lot of pie! It’s a fun event to volunteer at because you get to meet so many Math students excited to celebrate.”

SOPHIE

“I love participating in Waterloo Women’s Impact Network events. It’s a wonderfully supportive community that discusses current topics and holds interesting talks for the network. I encourage every woman in math, and allies, to attend an event or become a member to see themselves represented and hear inspiring stories. Representation matters.”

JONATHAN

“It’s really special to be a part of a group of people who are like me and are passionate about math and computer science in the same way I am.”

KESHAV

“CS 246 (Object-Oriented Software Development) is my favourite course as it’s the first deep dive into software development. I learned about designing, testing, and debugging programs and applicable, tangible skills like Git, Valgrind, and testing suites that I continue to use daily and on co-op.”
ADMISSIONS

HOW TO APPLY

1. Apply online and pay fees through the Ontario Universities’ Application Centre (OUAC).
2. Watch for an acknowledgement email with your next steps and Waterloo ID number.
3. Submit any additional required documents, including your AIF, before the deadline.
4. Accept your Offer of Admission through OUAC and submit your Residence Community Ranking Form and deposit.

2022 REQUIREMENTS

<table>
<thead>
<tr>
<th>PROGRAM (apply to)/ system of study</th>
<th>AREA OF STUDY</th>
<th>REQUIRED COURSES</th>
<th>ADMISSION AVERAGE (includes required courses)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Administration</td>
<td>Advanced Functions, Calculus and Vectors, any 12 U English, one other Grade 12 U course, AIF</td>
<td>Individual selection* from the low 90s</td>
<td></td>
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<tr>
<td>Mathematics/Financial Analysis and Risk Management</td>
<td>Information Technology Management, available beginning in second year</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics/Chartered Professional Accountancy</td>
<td>Same as above</td>
<td>Individual selection* from the high 80s</td>
<td></td>
</tr>
<tr>
<td>Business Administration and Computer Science</td>
<td>Same as above</td>
<td>Individual selection* from the mid-90s</td>
<td></td>
</tr>
<tr>
<td>Computing and Financial Management</td>
<td>Advanced Functions, Calculus and Vectors, any 12 U English (min 75%), one other Grade 12 U course, AIF</td>
<td>Individual selection* from the low-to-mid-90s</td>
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</table>

*Individual selection refers to content submitted on the AIF. Admission decisions are strongly based on academic performance, but extracurricular activities listed on the AIF and a good contest score (if applicable) are also taken into consideration.

AN ADMISSION INFORMATION FORM IS REQUIRED FOR ADMISSION!

The Admission Information Form (AIF) is submitted through Quest after you’ve completed your OUAC application. It includes questions about your extracurriculars and work experience. It’s your opportunity to tell us what makes you a unique and well-rounded student and helps us make admissions decisions.

TIPS

- Show us how you’re involved in activities outside of the classroom and in your community
- Demonstrate your ability to manage multiple activities and priorities while performing at a high level
- Use the “Additional Information” fields on your AIF to highlight what’s special or different about your extracurriculars, awards, and/or employment
- Strongly consider writing our Euclid Math Contest, Canadian Senior Math Contest, and/or Canadian Computing Competition

IT’S WORTH THE WAIT!

In an effort to base our decisions on the most relevant grades possible, most admissions offers are made in mid-May. We base our final decisions on your interim or final grades in your admission average and your AIF. In some cases, a strong score on the CSMC and/or Euclid contest can also improve your chances of admission.
ENGLISH LANGUAGE REQUIREMENTS

If English is not your first language and your four most recent years of full-time education have not been taught in English, you’ll be required to submit one of these English language test scores.

<table>
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<tr>
<th>INTERNET-BASED</th>
<th>IELTS</th>
<th>CAEL</th>
<th>PTE (academic)</th>
<th>DUOLINGO</th>
<th>CAMBRIDGE ASSESSMENT (C1 or C2)</th>
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<tr>
<td></td>
<td>90 overall; 6.5 writing; 6.0 speaking; 70 overall; 60 per band; 63 overall; 65 writing; 65 speaking</td>
<td>70 overall; 70 writing; 70 speaking</td>
<td>120 overall; subscore results must be submitted</td>
<td>180 overall; 176 writing; 176 speaking; 176 reading; 176 listening</td>
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</table>

If you’re applying to a program in the Faculty of Mathematics and achieve an overall IELTS score of 7.0 (with no band score below 6.0), you meet the language requirements needed for admission. Get deadlines and other details: uwaterloo.ca/future/elr

CONTESTS

Get contest preparation resources, registration details, and deadlines: cemc.uwaterloo.ca

EUCLID MATHEMATICS CONTEST

The Euclid Contest is not required for admission, but your participation is strongly encouraged and is an asset to your application. You must participate in the Euclid Contest or CSMC to be considered for a math entrance scholarship. The contest will be written in your high school in early April 2022.

CANADIAN SENIOR MATHEMATICS CONTEST (CSMC)

The CSMC is not required for admission, but your participation is strongly encouraged and is an asset to your application. You must participate in the CSMC or Euclid Contest to be considered for a math entrance scholarship. The contest will be written in your high school in mid-November 2021.

CANADIAN COMPUTING COMPETITION (CCC)

The CCC is not required for admission, but a high score may be an asset for admission to Computer Science programs. The CCC will be written in mid-February 2022.

FINANCING YOUR EDUCATION

When thinking about university, it’s important to prepare a realistic budget for your first eight months (two terms).

- List your financial needs: tuition and other student fees, residence fees, books, supplies, and living expenses. uwaterloo.ca/future/financing
- List the financial resources available to fund your education: savings, RESP, and co-op earnings (if applicable).
- If you’re eligible, augment your resources with scholarships, provincial financial aid (such as the Ontario Student Assistance Program), and a Waterloo Entrance Bursary.
- You pay only four months (one term) at a time.
- Participate in contests and apply for entrance scholarships.

ENTRANCE SCHOLARSHIPS

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<tr>
<th>SCHOLARSHIPS</th>
<th>VALUE</th>
<th>REQUIREMENTS</th>
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<tbody>
<tr>
<td>PRESIDENT’S AND MERIT SCHOLARSHIPS</td>
<td>Scholarships ranging in value from $1,000 to $5,000 – awarded to all students who meet marks criteria</td>
<td>Based on marks: 85–89.9% – $1,000 90–94.9% – $2,000 95% – $2,000+ (up to $5,000*)</td>
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<tr>
<td>FACULTY OF MATHEMATICS SCHOLARSHIPS</td>
<td>Scholarships ranging in value from $10,000 to $25,000</td>
<td>Based on application, high academic performance, and outstanding extracurricular achievements</td>
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*Entrance scholarship plus $1,500 International Experience Award and/or $1,500 Research Award. International Experience and Research Awards are available in upper years, should you choose to claim them. Students must complete their first-year courses with an 80% average.

uwaterloo.ca/future/scholarships
ACKNOWLEDGEMENT OF TRADITIONAL TERRITORY

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.