



# MATH/TEACHING

CO-OP ONLY

**ONLY** undergraduate Mathematics/Teaching co-op program in Canada

## *Inspire the next generation of mathematicians*

Mathematics/Teaching, a BMath program, provides you with paid classroom experience to better prepare you for a BEd program in Canada. You'll complete 8 academic terms on campus, 2 work terms that are equivalent to 8 months in the classroom, and additional work terms in the classroom or industry. Open to all co-op Math Faculty students, you can apply to the program as a major in your 2A term. You can choose a second teachable subject from the Arts and Science disciplines, such as physics, chemistry, biology, French, or music. You'll be prepared to teach at the intermediate/senior level (grades 7 to 12). To complete your BEd, apply to Faculties of Education in Ontario for studies that begin after you graduate from Waterloo.

### **KYLE'S RECOMMENDED COURSES FOR ASPIRING TEACHERS**

- › **MTHEL 206A Introduction to Mathematics Education:** I'm glad this was a requirement before my first teaching term! I learned about lesson planning, teaching techniques, and how to evaluate students. Because it's only open to Math/Teaching students, it's a great way to get to know others in the program.
- › **PSYCH 212 Educational Psychology:** This course focuses on what affects students' ability to learn in the classroom and what is essential to efficient learning. It made me look at my time on work terms in the classroom differently.
- › **SOC 207 Sociology of Education:** This course is designed for students planning to enter teaching as a career. It covers theories of sociology related to educational systems.
- › **MATH 235 Linear Algebra 2 for Honours Mathematics:** The last core linear algebra course that opens doors to amazing upper-year math courses.
- › **PMATH 330 Introduction to Mathematical Logic:** The notions of logical consequence and derivation are introduced in the settings of propositional and first order logic, with discussions of the completeness theorem and satisfiability.

[uwaterloo.ca/math/math-teaching](http://uwaterloo.ca/math/math-teaching)

**8** months of paid high school teaching experience

**20+** Math majors and options with which to customize your degree

**KYLE**

**4A MATHEMATICS/TEACHING,  
PURE MATH MAJOR, CO-OP**

### **WHAT'S YOUR FAVOURITE THING ABOUT WATERLOO?**

The atmosphere. I'm surrounded by keen academic people who inspire me to strive higher and to do my best work. It's an exhilarating environment. If you enjoy mathematics, there's no better place to be.



**UNIVERSITY OF  
WATERLOO**



# WATERLOO IS A GLOBAL LEADER IN CO-OPERATIVE EDUCATION



Kyle's extracurriculars include musical theatre, Waterloo Orientation, Teaching Students' Association, Math Ambassador program, and so much more.

## CO-OP STUDENTS AT WORK

Co-op bridges the gap between the classroom and the real world. Find opportunities to connect classroom theory with applications in a wide range of employment settings. During your co-op work terms, you will assume various job responsibilities, pick up new work-related skills, and earn competitive salaries.

### TYPICAL CO-OP POSITIONS

- › Instructional Support Assistant, University of Waterloo, **Kyle's first work term**
- › Math Circles Assistant, Centre for Education in Mathematics and Computing, Waterloo
- › Teacher Intern and Residence Don, St. Andrew's College, Aurora
- › Teacher Intern and Tutoring Centre, Trinity College School, Port Hope
- › AP Calculus Tutor/Teacher Intern, Bronte College, Mississauga

## STUDY AND CO-OP SEQUENCE 1\*

YR.	TERM	SEQ. 1
1	Fall	Study
	Winter	Study
	Spring	<b>Work</b>
2	Fall	Study
	Winter	<b>Work</b>
	Spring	Study
3	Fall	<b>Work</b>
	Winter	Study
	Spring	<b>Work</b>
4	Fall	Study
	Winter	<b>Work</b>
	Spring	Study
5	Fall	<b>Work</b>
	Winter	Study

\* This study-work sequence is one of 4 choices of co-op sequences. Math/Teaching students often have to modify their sequence.

## UNDERGRADUATE RESEARCH OPPORTUNITIES

If you're curious about the research that professors conduct, research opportunities are available for strong undergraduate students. You could be paid for a part-time opportunity, or a full-time position may substitute as a co-op term. It's not uncommon for students to publish their work.

You can find details about the application, deadlines, and examples of research conducted by previous undergraduates in the department and school websites. Successful applicants are then matched with a professor.

## CUSTOMIZE YOUR DEGREE

Mathematics/Teaching is a major that allows you to take a wide variety of math courses or to focus on a particular discipline, like Pure Mathematics.

The selection of courses required for BMath/Teaching must include a second teachable subject. Options for the second teachable are chosen from the subjects available at Ontario Faculties of Education in consultation with the Mathematics/Teaching academic advisors.

## GRADS AT WORK

- › Computer Science and Mathematics Teacher, Milton District High School, Milton
- › Math Teacher, TanenbaumCHAT, Vaughan
- › Head of Mathematics, Cameron Heights Collegiate Institute, Kitchener
- › Headmaster, Country Day School, King City
- › Online Learning Consultant, University of Waterloo, Waterloo
- › Teacher, Appleby College, Oakville
- › Instructor, University of Ontario Institute of Technology, Toronto



@waterloo.math



@WaterlooMath



@waterloomath

FACULTY OF MATHEMATICS  
MATHEMATICS/TEACHING ACADEMIC ADVISORS  
MIKE EDEN

[mceden@uwaterloo.ca](mailto:mceden@uwaterloo.ca)

CAROLYN SEDORE

[carolyn.sedore@uwaterloo.ca](mailto:carolyn.sedore@uwaterloo.ca)