

Mathematics

BA, iBA | www.glendon.yorku.ca/mathematics

See the world from an original perspective. Math is a practical tool that's essential to many fields and careers, with almost unlimited practical applications. You'll study the various branches of pure and applied math in courses that explore linear and modern algebra, mathematical analysis, topology and geometry, probability and statistics, and financial mathematics. With our small classes and friendly, high-profile professors, who are actively working in the field, you'll benefit from a personalized learning experience – and you'll have a bilingual edge in today's competitive global marketplace.



“My classes had five to 15 students, which is an advantage – teachers knew us by our names, not our student numbers. With this increased interaction, I felt more comfortable asking questions during and after lectures. Studying at a bilingual institution means a lot to me. Obtaining a bilingual degree at the end of my studies improves my chances of achieving greater career success.”

– Dennis Miave Yan, Alumnus

Boost Your Major

- To diversify your background, it is highly recommended that you choose a double major, for example combining Mathematics with French Studies (useful in a bachelor of education degree), Economics or Business-Economics
- Get practical opportunities to study, using investment case studies and real-world predicting (for example, in bungee jumping or predator-prey dynamics), and explore math through fields such as biology, economics and finance

Skills You'll Earn

- Understand fundamental mathematical concepts, theory and applications
- Apply mathematical models to interpret and predict the outcome of real-world phenomena, such as the propagation of waves, viruses and rumours
- Formulate and test statistical hypotheses
- Carry out complex mathematical operations and understand how complex technical material affects everyday life and technology

Career Paths

As a mathematics graduate, you are well-equipped to become a leader and changemaker. You can choose to pursue grad studies or get additional qualifications to help your career, in roles such as:

- Business analyst
- Investment banker
- Financial advisor/Financial planner
- Researcher
- Teacher



Your Path To Success

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	First Year	Middle Years	Final Year	Other Skills You'll Earn
Academics	<ul style="list-style-type: none"> Attend an enrolment-planning workshop with the Academic Advising team Consult the Academic Calendar Every year, meet with a faculty member of the Math Dept to review your progress Visit our language-learning support centres 	<ul style="list-style-type: none"> Expand your knowledge to modern algebra and calculus of functions of several variables Apply algebra and calculus in <i>Differential Equations</i> and <i>Optimization</i> Take statistics and/or mathematics of investment and work on case studies Request a progress report and meet with your academic advisor 	<ul style="list-style-type: none"> Time for real or complex analysis! Plan for your bilingual or trilingual certification; apply for the exam Get your degree audit Apply to graduate 	<ul style="list-style-type: none"> Critically analyze problems Think creatively Clearly explain complex ideas, and apply complex theoretical concepts to everyday situations Interpret and analyze information assess whether an idea/argument/proof is sound Gain logical thinking skills Acquire an understanding of fundamental mathematical concepts
Get Involved	<ul style="list-style-type: none"> Participate in orientation activities like JumpStart and Frosh Week Join Club Infinity, York University's official math club Visit the Salon francophone or ESL Open Learning Centre Meet the Student Life Coordinator 	<ul style="list-style-type: none"> Become a Peer Mentor Join the Student Union and develop your leadership skills Represent students' voices in university governance and/or committees 	<ul style="list-style-type: none"> Spread the word about clubs, organizations and events you have enjoyed and have helped you get connected on campus Become a Glendon Ambassador Tutor students taking introductory math classes 	
Gain Experience	<ul style="list-style-type: none"> Contact the Experiential Education office to find opportunities Develop your digital media skills at the Glendon Digital Media Lab Learn to articulate the skills you have developed through Becoming YU Enrol in Mathematics of Investment to work on case studies 	<ul style="list-style-type: none"> Apply to the Research Apprenticeship Program Pursue your passion project in G21, Glendon's inquiry-based incubator, or GENIAL, Glendon's business incubator for francophone and bilingual startups Work on projects in <i>Differential Equations</i> and <i>Optimization</i> with applications to economics 	<ul style="list-style-type: none"> Work on practical challenges by enrolling in the Cross-Campus Capstone Classroom (C4) Do a work placement in an elective course 	
Think Globally	<ul style="list-style-type: none"> Learn another language – 20 languages are taught at Glendon and Keele Campuses, including French, Spanish and Ojibwe! Develop your intercultural skills 	<ul style="list-style-type: none"> Consider an exchange abroad or with one of our partner universities in Quebec Enrol in <i>Le français par l'expérience</i> to expand your knowledge of French and francophone culture by doing a work placement 	<ul style="list-style-type: none"> Volunteer with organizations that have a focus on international issues or diversity in Canada Attend the Glendon Global debates 	
Plan Your Future	<ul style="list-style-type: none"> Build your transferable skills by participating in workshops about skills and career development 	<ul style="list-style-type: none"> Explore career options and learn more about the skills required Discover career opportunities by connecting with alumni Book an appointment with the Career Centre to start working on your resumé, cover letters and interview skills 	<ul style="list-style-type: none"> Attend Glendon's Bilingual Job Fair and networking events Use the Career Centre to enhance your resumé and LinkedIn profile; learn new job search techniques Attend a workshop on grad school applications Join a professional association in your field 	
				Admission Requirements
				<ul style="list-style-type: none"> Ontario Secondary School Diploma or equivalent with an average* in the mid to high 70s Minimum of six 4U or 4M courses, including 4U English (ENG4U) or FRA4U A combination of U and M courses; OACs are accepted MHF4U required; MCV4U recommended Proficiency in English OR French <p><small>* Average is calculated based on the top six 4U; 4M or DU courses</small></p>
				Get In Touch
				<p>Domestic students: liaison@glendon.yorku.ca</p> <p>International students: international@glendon.yorku.ca</p> <p>Attend one of our events!</p> <p>f t in @ GlendonCampus</p>