

Bachelor of Arts

Mathematical Economics



ABOUT THE PROGRAM

Develop your aptitude for mathematics by considering its application to economic problems. Mathematics is an invaluable element of economic analysis to open up large areas of inquiry. These areas include problems involving consumer behaviour, the interactions among producers as they compete for market share, macroeconomic outcomes such as inflation and unemployment, and international trade and competitiveness. Courses in mathematics, statistics, economics and econometrics will sharpen your analytical skills for a career in industry, government or graduate work, and will provide a solid understanding of social policy issues and government actions.

WHY CO-OP?

As a co-op student, you will gain relevant work experience, build professional networks and develop essential interpersonal skills needed to succeed in the workplace, all while getting paid and earning your university degree. Guelph's co-op program is unique due to the exceptional level of support provided, including an in-class preparatory course, a personal connection with a Co-op Coordinator to assist you during the employment process, and access to senior student mentors.

COURSE SEQUENCING

In the Mathematical Economics co-op program, you will participate in up to five co-op work terms in addition to eight academic semesters throughout your five years of study, as viewable below:

YEAR	FALL	WINTER	SUMMER
ONE	Academic	Academic	Off
TWO	Academic	Academic	Work
THREE	Work	Academic	Work
FOUR	Academic	Work	Work
FIVE	Academic	Academic	

SAMPLE JOBS

Below are some examples of past Mathematical Economics co-op positions.

Project Analyst

Gain hands-on knowledge as to how the provincial government functions, including exposure to finance, program design and delivery, measurement and analysis, and individual ministry decision-making processes. This includes analyzing business proposals, reconciling financial data, and developing communications materials.

Junior Analyst

Analyze the results of the Annual Survey of Manufacturing and Logging industries and work on some or all aspects of it by extracting, calculating, analyzing, reviewing and evaluating statistical data; working closely with team members; conducting research; writing reports and making recommendations for publishing data.

Policy Analyst

Contribute to an organization's policy development through assisting with report preparation, presentation delivery, research projects and analyzing various documents. In this role, the ability to conduct analysis on large quantities of complex data is highly important, as well as skills in problem solving and project management.

Also common: Business Analyst, Research Associate, Project Coordinator, Pension Administrator, and more.

SAMPLE EMPLOYERS*

- Statistics Canada
- RBC
- Fidelity Investments Canada
- Ontario Ministry of Food, Agriculture and Rural Affairs (OMAFRA)

*This shows a sample of recent co-op employers and will vary depending on employer recruitment needs. During a job search, students are encouraged to be actively engaged and are supported in establishing and maintaining their own personal contacts.

SALARY INFORMATION

Students receive compensation from their employer for co-op work terms. The rate of pay will vary depending on a number of factors including the industry, the student's program of study, and work term level. For your reference, a **Co-operative Education Salary Guide** is available on our website, which provides hourly rates (averages and ranges) for each degree program.

SKILLS & KNOWLEDGE ACQUIRED

- Excellent analytical skills, developed through completing extensive research projects
- Strong leadership and communication skills, developed through education and work experiences
- Ability to gather and assess economic data relevant to a research problem/project
- Thorough knowledge of statistical procedures
- Comprehensive understanding of economic problems as it applies to a variety of industry sectors