



Mathematics and Statistics

FACULTY OF SCIENCE



Who We Are

Mathematicians, statisticians and operational researchers use powerful mathematical, statistical and computational tools to solve both theoretical and practical problems. They combine quantitative reasoning with precision in innovative and imaginative ways. They are employed, for example as, teachers, actuaries, consultants, and computer analysts.

*the degree
that works*

Why Windsor

The Right Choice

Quality programs. Exceptional faculty members. A friendly, supportive campus. These are just a few of the reasons why Windsor is the right choice for you. We provide "the degree that works," an innovative, student-focused approach that combines learner-centred teaching with practical experiences to prepare its students for the challenges of tomorrow.

Vibrant and Dynamic

Windsor (www.city.windsor.on.ca/home) is a friendly community of 200,000. We're known for our exciting arts and entertainment scene, hundreds of restaurants, and abundant shopping. Outdoor enthusiasts can enjoy our moderate climate, many major waterways and countless parks. And, our strategic, international border location means Michigan is just across the river with concerts, world-class museums and four major league sports teams.

The Windsor advantage

At the University of Windsor, you can pursue programs in mathematics, statistics, operational research, actuarial science, math and computer science or combine math study with other disciplines. You can also earn a Bachelor of Education degree concurrently with your Bachelor of Mathematics degree.

A Rigorous, Enriching Program

Our programs include a core of rigorous courses designed to develop your mathematical problem-solving and communications skills, to increase your knowledge of mathematical structures and applications, and to enrich your spirit through exposure to the beauty of mathematics. Our programs allow you the flexibility to specialize in whichever mathematical science or multidisciplinary study appeals to you. Our graduates' excellent reputation has led to companies visiting our department each year to recruit them.

Excellent Study Resources

Our faculty are dedicated teachers and researchers in several mathematical specializations whose goal is to provide an excellent education. Among our resources, our students have access to a new computer lab, a Math and Stats Resource Centre to assist first-year students, excellent library resources which support active MSc and PhD programs. We also provide an official exam site for the Society of Actuaries. Students can qualify for a Diploma in Operational Research and have contact with members of the Fluid Dynamics Research Institute.

Small Higher-Level Courses

After first year, most of our classes are small in size. Therefore, our students have easy access to professors with opportunities to do research, to acquire teamwork skills, and to develop the

nucleus for a network of close professional friendships.

Financial Support

In addition to the regular entrance awards, students entering Mathematics and Statistics may qualify for the Outstanding Scholars Award, which can have a value of up to \$10,000 over four years, plus 200 hours paid employment per year starting in Year Two. Also, the Department of Mathematics and Statistics regularly employs many well-qualified undergraduate students as course tutorial assistants.

Why a Mathematical Sciences Degree?

Mathematicians and statisticians often work in teams with others to help them formulate and solve problems mathematically. According to yearly editions of The Jobs Related Almanac, which rates the top 250 jobs using such criteria as income, outlook, security, stress and work environment, careers based on mathematics make up the bulk of the Top 10 jobs. In 1999, actuary was second and mathematician was fourth out of ten, while four of the top 10 were based on math, and most of the top 100 involved math. The range of mathematical career paths for mathematically trained individuals is extremely broad. Our graduates might work as teachers, actuaries, operational research analysts, statisticians, computer analysts, financial consultants and so on. Graduates also could consider postgraduate study in professional fields requiring math or analytical abilities.

General Programs

General BMath (Bachelor of Mathematics) programs, which provide students with a broad general training in Mathematics and Statistics, consist of 30 courses including required and

optional Mathematics and Statistics courses, and optional Science, Arts and Social Science courses.

BMath Honours Programs

Honours programs require 40 courses, provide a stronger concentration within subject areas and demand higher levels of achievement than general degree programs. All programs require optional mathematics and statistics courses and at least two computer science courses. Mathematics and Statistics programs carry a heavy concentration in statistics. The Mathematics and Computer Science program has a strong concentration in computer science. Courses may be chosen to prepare for careers in actuarial science, operational research or financial math.

Concurrent BMath/BEEd Program

This limited-enrolment program allows students to concurrently prepare a Bachelor of Mathematics degree (general or honours) and a Bachelor of Education degree, over four years (for the general BMath) or five years (for the honours BMath). This leads directly into a teaching career in the elementary or secondary schools.

Combined Honours Degree Programs

These 40-course programs concentrate on any two subjects combined with the approval of the relevant department heads or school directors and the Associate Dean of Science.

Admission Requirements

Six Grade 12 U or M courses including Grade 12 U English 1, 12 U Advanced Functions and Introductory Calculus, and 12 U Geometry and Discrete Mathematics. (Grade 12 U Physics and Grade 12 U Mathematics of Data Management are also recommended.)

Mathematics Degrees Available at the University of Windsor:

- BMath General and Honours
- BMath Honours Mathematics and Statistics
- BMath Honours Mathematics and Computer Science
- BMath (Honours or General)/BEEd concurrent
- BMath other combined honours degrees (consult with Mathematics Department)
- BOR (Bachelor of Operational Research) Honours Co-operative Education Program (see also separate BOR brochure)

Graduate Degrees

- MSc Mathematics
- MSc Statistics
- PhD Statistics

FOR MORE INFORMATION PLEASE

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Mathematics and Statistics

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