HONOURS BSC IN FINANCIAL MATHEMATICS AND ECONOMICS

Mathematics and statistics are not only powerful problem-solving tools, but also highly creative fields of studies that combine imagination with logic, and precision with intuition.

Mathematics is much more than numbers! Its basic goal is to reveal and model general patterns to help explain our world, whether they be found in electrical impulses in the human nervous system, the evolution of animal populations in their habitats, fluctuations in stock-market prices, or electronic communications. Mathematics reaches far beyond science and engineering into medicine, business and the social sciences.

Advances in mathematics and statistics lie behind many discoveries that are now part of our daily lives, such as MRI scanners, digital compression of music and video, secure electronic communications, data mining, genomic algorithms, futures pricing, and many other innovations.

The Department of Mathematics and Statistics offers Honours, majors and minors both in mathematics and in statistics. Our Honours program in statistics is accredited by the Statistical Society of Canada, allowing graduates to earn the A.Stat. professional designation. Moreover, the Department offers a joint honours program in mathematics and economics, a joint honours program in mathematics and computer science, as well as a multidisciplinary program in financial mathematics and economics. All our honours programs also include the co-operative education option.

This program is offered in English and in French.

Program Requirements

Co-operative education is available with this program.

The extended French stream is available with this program.

Requirements for this program have been modified. Please consult the 2018-2019 calendars (http://catalogue.uottawa.ca/en/archives) for the previous requirements.

3 course units from:

MAT 2141 Honours Linear Algebra
MAT 2342 Introduction to Applied Linear Algebra
ADM 3350 Corporate Finance
ECO 3153 Microeconomic Theory III
MAT 3172 Foundations of Probability
MAT 3375 Regression Analysis
MAT 3379 Introduction to Time Series Analysis
ADM 4351 Options and Futures
ECO 4185 Financial Econometrics

6 course units from:

ECO 4152 Macroeconomic Theory III
ECO 4115 Monetary Theory
ECO 4123 International Finance
ECO 4139 Industrial Organization II
ECO 4145 Mathematical Economics II
ECO 4170 Game Theory with Applications in Corporate Finance
ECO 4186 Applied Econometrics

3 optional course units in management (ADM) at the 3000 or 4000 level

9 optional course units in mathematics (MAT) at the 3000 or 4000 level

3 optional course units in management (ADM) at the 4000 level

6 optional course units in mathematics (MAT) at the 4000 level

6 elective course units

Total: 120 Units

Note(s)

1 Students intending to pursue graduate studies in mathematics should select 9 optional course units from MAT 3120, MAT 3121, MAT 3143 and MAT 3341 among their optional course units in mathematics (MAT).

2 Students intending to pursue graduate studies in statistics should select MAT 3377, MAT 3378 and MAT 4175 among their optional course units in mathematics (MAT).

3 MAT 4372, MAT 4374 and MAT 4387 are recommended.

4 ITI 1120 is highly recommended.