MINOR IN STATISTICS

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

The table below includes only discipline-specific courses. Please refer to the Academic Regulations (https://www.uottawa.ca/administration-and-governance/academic-regulation-3-program-of-studies/) for information on including a minor to your degree.

Requirements for this program have been modified. Please consult the 2015-2016 calendars (http://www.uottawa.ca/academic/info regist/1516/calendars/) for the previous requirements.

One option from the following: 6 Units

**Option 1:**
- MAT 1320 Calculus I
- MAT 1322 Calculus II

**Option 2:**
- MAT 1330 Calculus for the Life Sciences I
- MAT 1332 Calculus for the Life Sciences II

3 course units from: 3 Units
- MAT 1341 Introduction to Linear Algebra
- MAT 1302 Mathematical Methods II
- MAT 2342 Introduction to Applied Linear Algebra 3 Units
- MAT 2371 Introduction to Probability 3 Units

3 course units from: 3 Units
- MAT 2375 Introduction to Statistics
- MAT 2379 Introduction to Biostatistics

9 course units from: 9 Units
- MAT 3172 Foundations of Probability 3
- MAT 3375 Regression Analysis
- MAT 3377 Sampling and Surveys
- MAT 3378 Analysis of Experimental Designs
- MAT 3379 Introduction to Time Series Analysis
- MAT 4175 Introduction to Mathematical Statistics
- MAT 4371 Applied Probability
- MAT 4374 Modern Computational Statistics
- MAT 4375 Multivariate Statistical Methods
- MAT 4376 Topics in Statistics
- MAT 4377 Topics in Applied Probability
- MAT 4378 Categorical Data Analysis in Biostatistics 3

Total: 30 Units

Note(s)

1. This course cannot count in a major or an Honours program in mathematics or statistics.
2. The courses in this list are accredited by the Statistical Society of Canada for the A.Stat. professional designation. Consult the Department of Mathematics and Statistics for more details.
3. These courses require prerequisites which are not part of the minor.