Actuarial Science  (BA)

Admission Requirements

**Prerequisite Requirements for BA:**

- ENG4U, MHF4U,
- **Recommended:** MCV4U
- **Expected minimum admission average:** high 70s – mid 80s

**Program Overview**

Actuarial Science is the area of mathematics that applies quantitative methods to assess risks in the insurance and finance industries. Actuarial Science is a collection of courses spanning such areas as:

- Mathematical analysis
- Probability theory
- Statistics
- Actuarial science
- Finance
- Economics

We offer a Specialized Honours BA in Actuarial Science, an Honours BA in Actuarial Science, and A Professional Certificate in Actuarial Science. The two Honours degrees (typically four years of full time studies plus internship terms) are a great option for students who are willing to have comprehensive undergraduate training in mathematics with specialization in Actuarial Science. The Professional Certificate option (typically two years of studies) is for York students who major in other than Mathematics disciplines, and are interested in an insurance-related career; the certificate is also a good choice for ‘career changers’ who hold a University degree with a strong quantitative basis and seek employment in the insurance industry.
The Faculty of Science provides a rich diversity of opportunities for undergraduate students to engage in Experiential Education. The Internship Program provides students in this program with the opportunity to integrate their classroom learning with hands-on, paid, work experiences related to their field of study. Internship students will begin their work term(s) after their third year of classroom study and can take part in 4, 8, 12, or 16 months of work before returning to school to complete their studies.

Here are just a few of the companies you could have the opportunity to work for:

- Sanofi Pasteur
- Health Gene Corporation
- Parks Canada
- City of Toronto
- Grande Prairie Regional College

Visit yorku.ca/science/students/experiential-education/ for more information.

This program is specifically designed for students striving to attain the Associate designation of the Society of Actuaries but still gives graduates opportunities in other fields including:

- Actuary
- Operations Research and Optimization
- Accountant/Financial Advisor/Financial Analyst
- Data Analyst
- Statistician
- Education – elementary, high school, college, university
- Post Graduate Studies/Academic Career