Statistics is the science of designing informative experiments, of displaying and analyzing data, and of drawing valid conclusions from data. There is great demand for those who understand and can apply statistics effectively. Knowledge of statistical methods is useful to scientists and engineers, and to others working in government, research, industry, and medicine. Statistics can also be studied as a subject in its own right.

**Alumni Jobs**

- **9%** of alumni work in **Pharmaceuticals**
- **15%** of alumni work in **Insurance**
- **18%** of alumni work in **Banking, Investment**
- **21%** of alumni work in **Education**

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**Alumni Story**

Rhodes Scholar Nithum Thain completed his BScH in Math, scoring a perfect GPA while being the captain of the fencing team at Queen’s, where he won two provincial gold medals. He has enjoyed a wide range of professional opportunities – starting off at Empire Avenue as the VP of Research, working on the algorithms that ran their online gaming platform, and followed by working as a Business Development Analyst at createLIVE.

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**Acquire Skills. Gain Experience. Go Global.**

That is a degree from Queen’s. queensu.ca/mathstat
2019-2020
Statistics
BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR

**GET THE COURSES YOU NEED**

In first year you will have the chance to explore the foundations of Statistics along with some electives. Attend Majors Night in the Winter term to learn more about Plan options.

**GET RELEVANT EXPERIENCE**

Join teams or clubs on campus such as the Queen’s Math Club, Putnam team, and the Math Investigations Program.

**GET CONNECTED WITH THE COMMUNITY**

Volunteer on or off campus with different community organizations such as Best Buddies.

**GET THINKING GLOBALLY**

Prepare for work or studies in a multi-cultural environment by taking QUIC’s Intercultural Competency Certificate, and research possible immigration regulations.

**GET READY FOR LIFE AFTER GRADUATION**

Grappling with program decisions? Go to Majors Night or get some help wondering about career options from Career Services.

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**1ST YEAR**

In first year you will have the chance to explore the foundations of Statistics along with some electives. Attend Majors Night in the Winter term to learn more about Plan options.

**2ND YEAR**

Start going deeper into the discipline of Statistics, while considering a minor and/or certificate such as Geographic Information Science. Attend Degree + in the Fall term to learn more about Certificates and Internship options. Want to make sure your academics are where you want them to be? Visit SASS (Student Academic Support Services) and the Writing Centre for some help.

**3RD YEAR**

A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Statistics. Meet with an Academic Advisor to make sure you are on track and have planned out your courses for next year.

**4TH OR FINAL YEAR**

In fourth year you will have the chance to participate in research-based courses that can lead to Graduate School or to your future career path. Make sure to finish up all your courses for your major and your optional minor and/or certificate(s).

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**CONSIDER A 12-16 MONTH QUIP INTERNSHIP**

Investigate requirements for full-time jobs or other opportunities related to careers of interest. Assess what experience you’re lacking and fill in gaps with volunteering, clubs, or internships – make an appointment with a career counsellor for further support.

Consider submitting your work to an undergraduate journal like Inquiry@Queen’s.

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**What will I learn?**

A degree in Statistics can equip you with:

- Logical reasoning and problem solving to apply analytical and critical reasoning to solve problems
- Ability to solve problems by applying analytical and critical reasoning
- Understand strong evidence to produce trustworthy data and provide mathematical evidence for conjectures and generalizations
- Knowledge of a broad range of mathematical fields and methods
- Ability to create mathematical models
- Pattern recognition to explore examples and recognize patterns
- Persistence to approach problem solving with openness and a willingness to try multiple approaches
- Ability to work independently and in a team on a project
- Oral and written communication to communicate quantitative ideas with clarity and coherence through writing and speaking

**Where can I go?**

A degree in Statistics can take your career in many directions. Many students choose to continue their academic inquiry with a Master’s. Our students are equipped with a strong foundation for careers in:

- Risk analyst
- Mathematician
- Data scientist
- Cryptanalyst
- Banking
- Aerospace
- Financial analyst
- Mathematician
- Risk analyst
- Survey researcher

Considering these degrees? 

-會計
-航空業
-審計
-銀行
-化學家
-數據科學家
-金融分析師
-數學家
-風險分析師
-調查研究員

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**Visit careers.queensu.ca/majormaps for the online version with links!**

* This map is intended to provide suggestions for activities and careers, but everyone’s abilities, experiences, and constraints are different. Build your own Major Map using our online My Major Map tool.
Why study in Kingston?
For 175 years, our community has been more than a collection of bright minds – Queen’s has attracted students with an ambitious spirit. Queen’s has the highest retention rates, the highest graduation rates, and one of the highest employment rates among recent graduates. We are a research intensive university focused on the undergraduate experience. The BBC has identified us as one of the GREATEST UNIVERSITY TOWNS in the world – and is often awarded the safest city in Canada. We are a university city at the core; just a quick drive to Toronto, Montreal, Ottawa and even New York. A university with more clubs per capita than any other university in Canada, and a city with more restaurants per capita than any other city in North America – you will have the experience of a lifetime at Queen’s – and graduate with a degree that is globally recognized among the best.

For more information, contact quiq@queensu.ca or visit the Program Website.