

# Statistics

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.

TOP

## REASONS to study STATISTICS

Statistical thinking provides us with ways of understanding data sets that will help in analyzing 'real-world' problems.

Our digital age requires training in the STEM subjects, of which statistics is an essential part.

Our ability to collect huge amounts of data critically requires the development sophisticated ways to draw conclusions and move forward.

Statistics teaches skills and insights needed to succeed in the ever-changing workplace.

There is a huge demand for statisticians in academia, government and industry.

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

working on the algorithms that ran their online gaming platform, and followed by working as a

TOP 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**

major thresholds

Thresholds are made on a competitive basis and are updated annually. To see the thresholds for all programs as well as the latest information, please visit [www.queen's.ca/arts/qartsci/certs](http://www.queen's.ca/arts/qartsci/certs)

add a **CERTIFICATE** to your degree

D **Analytics**

D **Business and P **Public Affairs****

E **Relations**

E **International and Creativity**

F **Finance for**

G **Information Science**

G **Global Affairs and Engagement**

I **International Languages and Cultures**

I **International Studies**

M **Media Studies**

S **Social and G **Global Diversity****

U **Public Policy Studies**

[Qartsci.com/certs](http://Qartsci.com/certs)

**A**cademic Skills. **G**lobal Experience. **G**lobal.

**T**hrough Quality Learning.

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.

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.

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.

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).

## What will I get?

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 conclusions/reasoning
- Write in English, Spanish, French, German, Italian, Portuguese, Chinese, Japanese, Korean, and Russian
- Actively engage in research and/or community service
- mathema

# Statistics

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