STATISTICS

CO-OP OR REGULAR

#1 career of top 200 jobs rated in 2017: Statistician – careercast.com

2nd most in-demand skills in the world: Statistics – LinkedIn 2017

> "Jobs for statisticians are expected to grow an astounding 34% by 2024!" – thisisstatistics.org

Predict and prepare for the future

Statisticians are data-driven and in demand. Statisticians were ranked the number one job in North America in 2017, according to careercast.com. At Waterloo, you'll acquire skills and statistical methods for designing studies and surveys, collecting and analyzing data, forecasting, mathematical modelling, extracting meaning, and applying the results in a broad range of fields, such as engineering, finance, health sciences, sports, and business management.

CAROLINE'S MUST-HAVE COURSES

- **STAT 230 Probability:** This was my first Statistics course. It's an introduction to probability models – it plus STAT 231 are why I decided to major in Statistics.
- **STAT 231 Statistics:** I'm currently enrolled in Stat 231 and loving it, though it's also hard work. The focus is on empirical problem solving – how to collect data and test hypotheses.
- **STAT 330 Mathematical Statistics:** This course takes off from where STAT 230 and 231 end. It's mathematically rigourous and I can't wait to dive in.
- **STAT 337 Introduction to Medical Statistics:** Because I'm interested in health research, I want to see research methods using examples from medical data.

CAROLINE
BUSINESS AND MATH DOUBLE DEGREE, STATISTICS MAJOR, CO-OP

WHY DID YOU CHOOSE WATERLOO?

"I chose Waterloo because it's one of the best math schools in Canada. I knew that the global reputation of the school plus co-op, of course, would create a lot of opportunities for me."

uwaterloo.ca/statistics-and-actuarial-science

UNIVERSITY OF WATERLOO

WATERLOO IS A GLOBAL LEADER IN CO-OPERATIVE EDUCATION

Caroline's extracurriculars include the Global Business Brigade, Math Ambassador, and the Residences Marketing Advisory Board.

CO-OP STUDENTS AT WORK

Co-op bridges the gap between the classroom and the real world. Find opportunities to connect classroom theory with applications in a wide range of employment settings. During your co-op work terms, you will assume various job responsibilities, pick up new work-related skills, and earn competitive salaries.

TYPICAL CO-OP POSITIONS

› BMO Taxation Analyst, Bank of Montreal, **Caroline's first work term**

› Data Management Officer, Ontario Ministry of Environment, Toronto

› Statistician Assistant, Statistics Canada, Ottawa

› Product Analyst, Facebook, Menlo Park

› Metadata Management Consultant, Bank of Montreal, Toronto

STUDY AND CO-OP SEQUENCE 1*

YR.	TERM	REGULAR	SEQ. 1
1	Fall	Study	Study
	Winter	Study	Study
	Spring	Off	**Work**
2	Fall	Study	Study
	Winter	Study	**Work**
	Spring	Off	Study
3	Fall	Study	**Work**
	Winter	Study	Study
	Spring	Off	**Work**
4	Fall	Study	Study
	Winter	Study	**Work**
	Spring		Study
5	Fall		**Work**
	Winter		Study

* This study-work sequence is one of 4 choices of co-op sequences.

UNDERGRADUATE RESEARCH OPPORTUNITIES

If you're curious about the research that professors conduct, research opportunities are available for strong undergraduate students. You could be paid for a part-time opportunity, or a full-time position may substitute as a co-op term. It's not uncommon for students to publish their work.

You can find details about the application, deadlines, and examples of research conducted by previous undergraduates in the department and school websites. Successful applicants are then matched with a professor. You'd be well suited for a research position if you want to pursue a master's and/or doctoral degree after completing your undergraduate studies.

CUSTOMIZE YOUR DEGREE

Data Science

This major is a full degree program, offered jointly by Computer Science and Statistics, that begins in second year. Your choice of home base is reflected in the courses you need to complete the degree – either a BMath or a BCS. See the Data Science page for more information.

Health Informatics Option

Offered jointly by Health Studies and Computer Science, this option covers 7 courses in health sciences and information technology, and it is popular among students majoring in Stats and Stats for Health.

Biostatistics

Starts in second year and resembles the Statistics major with a strong focus on health research. See the Biostatistics page for details.

GRADS AT WORK

› Research Biostatistician, Chedoke-McMaster Hospitals, Hamilton
› Software Development Analyst, IBM Canada Ltd, Markham
› Statistician, Hydro One, Toronto
› Statistician, Statistics Canada, Ottawa
› Manager – Business Analyst, Scotiabank, Toronto

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FACULTY OF MATHEMATICS
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