



BIOSTATISTICS

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

Analyze health data and interpret the results

Quantitative skills and statistical methods are a potent combination and in greater demand than ever. Biostatistics is the only program of its kind in Canada and is offered through co-op and regular systems of study. In this program, you'll take the same core courses as Statistics majors, with the addition of specialized upper-year courses designed specifically for Biostatistics students, including health policy, health informatics, and management.

MARCUS' RECOMMENDED COURSES

- › **STAT 231 Statistics:** This course was the first stats course I took. It's a foundational course that provides a systematic approach to empirical problem solving.
- › **HLTH 101 Introduction to Health 1:** A great course for anyone interested in health or health care. You get to explore what impacts health throughout a lifespan, how these factors influence one another and the role and impact of health care.
- › **STAT 337 Introduction to Biostatistics:** This course provides an introduction to statistical methods in health research, and it is one of the best Stats courses I could take to help get me closer to jobs in the field.
- › **STAT 430 Experimental Design:** This course reviews topics, statistical tools, and issues faced in designing rigorous research projects.
- › **STAT 436 Introduction to the Analysis of Spatial Data in Health Research:** The calendar describes it as an introduction to statistical inference based on spatially correlated data. My advisor says it will complement STAT 337 and STAT 430.

MARCUS

STATISTICS FOR HEALTH,
CO-OP, BIOLOGY MINOR

WHAT EXPERIENCE STANDS OUT?

The undergraduate research scene at Waterloo is definitely inspiring and has become my passion. Last term I completed a research project with one of my Stats professors. It was an incredible experience and has given me the confidence to pursue graduate studies in biostatistics.





WATERLOO IS A GLOBAL LEADER IN CO-OPERATIVE EDUCATION



Marcus makes time for intramural sports, like Ultimate Frisbee; and he teaches guitar and plays a hand of euchre every chance he gets.

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

- › Research Associate, Research Ethics Department, University of Waterloo, **Marcus' first work term**
- › Research Analyst, Marketing and Undergraduate Recruitment, University of Waterloo, **Marcus' second work term**
- › Cancer Genome Data Analyst, Ontario Institute for Cancer Research, Toronto
- › Research Assistant, Development Research Centre of the State Council, Ottawa
- › Medical Research Assistant, London Health Sciences Centre, London

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

Health Informatics Option – The Health Informatics Option is offered jointly by Health Studies and Computer Science. It covers 7 courses in health sciences and information technology, and it's popular among students majoring in Stats and Biostatistics.

A Minor – Many students minor in Biology or Economics.

GRADS AT WORK

- › Bioinformatician, Peter McCallum Cancer Centre, Melbourne
- › Biostatistician, Boston Children's Hospital, Boston
- › Sr. Biostatistician, Health and Wellness Alberta, Edmonton
- › Sr. Research Officer, National Research Council of Canada, Ottawa
- › Sr. Policy Developer, Workplace Safety and Insurance Board, Toronto



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