Collaborative Graduate Program with a Specialisation in Biostatistics M.Sc.

Why GRADUATE STUDIES in BIOSTATISTICS?

Graduate students and their work are an important part of the ongoing research process that provides the community with ways of understanding health problems that occur at a local, regional, national, and even global level. Students gain skills to communicate scientifically, describe trends and patterns of disease incidence and prevalence, critically review scientific literature related to community health and epidemiology, collect and analyse data, and more.

A graduate degree in Biostatistics will equip students with a sound knowledge in observational and experimental study designs, statistical theory, statistical models for health data analysis, and statistical computing. A four-month practicum will provide students opportunities to apply basic knowledge and develop consulting expertise within a health research group in an academic or industry setting. The Department of Public Health Sciences and Department of Mathematics and Statistics jointly offer the collaborative M.Sc. program in biostatistics specialization. The two departments offer strong graduate programs that include a broad range of courses in statistics, biostatistics, epidemiology, and health services research. By combining these resources, students in the collaborative program will have unique opportunities to develop the analytical skills and practical experience needed to interact with practitioners and to work on current research projects in a variety of health areas. Graduates of this program will be capable of working as biostatistical data analysts within multi-disciplinary health research teams.

Why QUEEN’S?

Our established strengths are in the areas of cancer, injury, obesity, disability, and mental health epidemiology as well as research in various health services contexts including public health, primary care, cancer care and critical care. We also have some emerging strengths in the areas of Northern health, Aboriginal health, and global health studies.

“For me, the M.Sc. specializing in Biostatistics program at Queen’s has two main things that are important: the research experience of the faculty and the positions the alumni secure after graduation.”

- Andrew Dabbikeh, M.Sc. Candidate

Research AFFILIATIONS

Students have opportunities to work with our Faculty who are affiliated with a number of health research groups in the Kingston area including:

- NCIC Clinical Trials Group
- Cancer Care and Epidemiology Group
- Centre for Health Services and Policy Research
- Queen’s School of Rehabilitation Therapy
- Clinical Research Centre at Kingston General Hospital
- Research and Education Program at KFL&A Public Health Unit

Program STRUCTURE

- M.Sc. Epidemiology with a Specialization in Biostatistics/M.Sc. Mathematics and Statistics with Specialization in Biostatistics
- Course work: 6 core courses, 2 electives plus 1 supervised practicum (EPID/STAT 888). 12 months full time; part-time studies available on a case-by-case basis.

RESEARCH Areas

- Epidemiology and Population Health
- Health Services and Policy Research
- Clinical Epidemiology
Application FAQs

What do I need to know to APPLY?

ACADEMIC REQUIREMENTS
- 4-year Bachelor’s degree with Honours (normally a B.Sc. in Statistics, Mathematics, Biology, Life Sciences, Health Science or Economics).
- Grade requirements: An overall minimum average of 75% in undergraduate studies.

ADDITIONAL REQUIREMENTS
- Two copies of an official transcript (for external students).
- Two academic letters of recommendation.
- If English is not a native language, prospective students must meet the English language proficiency requirements in writing, speaking, reading, and listening.

DEADLINES
- Applications are due: January 31st
- Application review begins in mid-February.

What about FUNDING?

The Department provides individual funding packages for full-time students in the program, based upon the student’s academic standing and on the sources of money available each year. These packages are funded through a combination of external awards, internal awards, internal departmental awards, faculty support, teaching assistantships, graduate research assistant fellowships, and research assistantships.

Apply for external funding from CIHR, NSERC, OGS, ACCELERATE Ontario, and other sources. Queen’s automatically issues a $5,000 top-up to federal tri-council scholarship holders in their first year of study. For more information, see the School of Graduate Studies’ information page on awards and scholarships in addition to the home department’s graduate awards page.

CONTACT Information

For more information, contact the representative of the Department that is best aligned with their research interests.

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