There has never been a more exciting time to study biology, with subjects ranging from climate change and the conservation of biodiversity to the origin and evolution of life, and from the form and function of organisms to the ongoing ‘omics’ revolution at the molecular level. Our program emphasizes interactive learning with hands-on laboratories, field courses, and small senior seminar modules.

**TOP 5 REASONS to study BIOLOGY**

1. SWEP jobs provide students with true research opportunities, and start after first year.
2. QUBS: an off-site field station that provides students with opportunities to learn hands-on from their environment.
3. Courses are focused on cutting-edge topics in biology.
4. Interact closely with professors in class and during our many events held throughout the year.
5. Apply for an internship, with specific jobs for all types of biological study and research.

**ALUMNI JOBS**

- 10% of alumni work in GOVERNMENT & NON-PROFIT
- 13% of alumni work in BUSINESS & LAW
- 16% of alumni work in HEALTH CARE
- 35% of alumni work in EDUCATION

**2019-20 major thresholds**

- **1.9 cGPA** AUTOMATIC ACCEPTANCE min B- in BIOL 103
- **1.6 cGPA** PENDING LIST min C- in BIOL 103

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 quartsci.com/planselection

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**ALUMNI STORY**

“The Queen’s Biology program was very well-rounded and definitely played a major role in helping to get where I am today. Not only did I learn a lot from the courses, but I also had the opportunity to do an independent research project and spend a summer doing fieldwork at Queen’s University Biological Station.”

- Sharon Zhang, BScH ’13

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

That is a degree from Queen’s.
BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR

2019-2020

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

**MAJOR MAP**

1ST YEAR

- **GET THE COURSES YOU NEED**
  - In first year you will have the chance to explore the foundations of Biology in biology, chemistry, geography and geology along with some electives.
  - Attend Major Night in the Winter term to learn more about Plan options.

- **GET RELEVANT EXPERIENCE**
  - Join teams or clubs on campus such as Queen's First Aid, the Queen's Association for Technology in Medicine and Biology (QATMB), the Queen's Synthetic Biology Organization (QSYNBO). See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.
  - Volunteer on- or off-campus with different community organizations, such as Queen’s Health Outreach, Let’s Talk Science, and Women in Science & Engineering at Queen’s University (WISE).

- **GET CONNECTED WITH THE COMMUNITY**
  - Prepare for work or studies in a multi-cultural environment by taking QUC’s Intercultural Competency Certificate, and research possible immigration regulations.
  - Speak to a QUC advisor to get involved in their programs, events, and training opportunities.

- **GET THINKING GLOBALLY**
  - Grappling with program decisions? Go to Majors Night or get some help considering career options from Career Services.
  - Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

2ND YEAR

- **GET THE COURSES YOU NEED**
  - Start going deeper into the discipline of Biology, while considering a minor and/or certificate such as Medical Studies. 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 SAAS (Student Academic Support Services) and the Writing Centre for some help.

- **GET RELEVANT EXPERIENCE**
  - Volunteering is a great way to get practical experience and build your Resume towards getting Biology jobs during your degree.
  - Look into summer jobs by talking to the department or Career Services about work through SWEP or NSERC.

- **GET CONNECTED WITH THE COMMUNITY**
  - Get involved with the Departmental Student Council (DSC). Start or continue volunteering with organizations.
  - If interested, attend conferences and talks like the Canadian Undergraduate Conference on Healthcare (CUCOH).

- **GET THINKING GLOBALLY**
  - Is an exchange in your future? Start thinking about where you would like to study abroad. Apply in January for a third year exchange through the International Programs Office.
  - Look into a BIOL 307/317 Field Biology International Program.

3RD YEAR

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

- **GET RELEVANT EXPERIENCE**
  - Consider applying to research opportunities at Queen’s University Biological Station or through the Biology Undergraduate Summer awards.
  - Consider applying to do a 12-16 month QUIP internship between your third and fourth year.

- **GET CONNECTED WITH THE COMMUNITY**
  - Do some targeted networking with alumni working in careers of interest by joining the LinkedIn group Queen’s Connects: Check out Career Services networking workshops.
  - Connect with professors at events or workshops hosted by the DSC.

- **GET THINKING GLOBALLY**
  - Build your intercultural competence by getting involved with other cultures by or practicing and improving your language skills.

4TH OR FINAL YEAR

- **GET THE COURSES YOU NEED**
  - 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).

- **GET RELEVANT EXPERIENCE**
  - 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 – check out the Career Services skills workshop for help. Participate in Inquiry @ Queen’s undergraduate student conference.
  - Consider joining professional associations like Canadian Society for Microbiology, BIOTECanada, and the Canadian Society for Ecology and Evolution.
  - Join groups on LinkedIn reflecting specific careers or topics of interest in Biology.

- **GET CONNECTED WITH THE COMMUNITY**
  - Consider applying to do a 12-16 month QUIP internship for help. Participate in Inquiry @ Queen’s undergraduate student conference.
  - Consider applying to research opportunities at Queen’s University Biological Station or through the Biology Undergraduate Summer awards.
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- **GET THINKING GLOBALLY**
  - International students interested in staying in Canada can speak with an International Student Advisor.

- **GET THINKING GLOBALLY**
  - Apply to jobs or future education, or make plans for other adventures. Get help from Career Services with job searching, resumes, interviews, Grad School applications, or other decisions.

**WHAT WILL I LEARN?**

- A degree in Biology can equip you with:
  - Problem-solving, writing and more with Student Academic Success Services.
  - Develop knowledge of biological functions.
  - Use laboratory equipment and instruments.
  - Gain hands-on experience studying biology in the field.
  - Comply with quality control and safety regulations.
  - Collect and preserve organisms.
  - Design experimental studies.
  - Present literature and research findings in posters and seminars.
  - Observe and make measurements.
  - Write, review, and summarize reports/scientific writing.
  - Analyze and evaluate information.
  - Statistical analysis of biological data.
  - Solve quantitative problems.

**WHERE CAN I GO?**

- A degree in Biology 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:
  - Agricultural Sciences
  - Biotechnology
  - Biopharmaceuticals
  - Dentistry
  - Environmental conservation
  - Environmental sustainability
  - Fisheries science
  - Marine biology
  - Medicine
  - Medical technology
  - Occupational therapy
  - Osteopathy
  - Pharmacology
  - Physical therapy
  - Toxicology
  - Veterinary medicine

- Taking time to explore career options, build experience and network can help you have a smooth transition to the world of work after graduation.

- More about Certificates and Internship options.

- Where can I go?

- Master’s. Our students are equipped with a strong foundation for careers in:

- **Career Cruising** or by finding information check out Career Services.

- MCAT or GMAT) and get help thinking about Grad School from Career Services.

- Explore different careers of interest by reading books in the Career Services Information Area, such as Opportunities in Biotechnology Careers. For more information check out Career Cruising or by finding and connecting with alumni on LinkedIn.

- 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 – check out the Career Services skills workshop for help. Participate in Inquiry @ Queen’s undergraduate student conference.

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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 Kingston as one of the GREATEST UNIVERSITY TOWNS in the world – and it is often awarded the safest city in Canada. It is 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.