Biology

There has never been a more exciting time to study and do research in 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 experiential laboratories, field courses, small senior seminar modules, and independent research.

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

TOP 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

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.

2023-24 Plan 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 quartsci.com/planselection.

Interested in finding out how to augment your degree with Experiential Learning? Learn what opportunities and resources are available for you on the Experiential Learning website. You can also reach out to the team directly at asc.el@queensu.ca.


That is a degree from Queen’s.

biology.queensu.ca
## 1ST YEAR

- 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 Majors Night in the Winter term to learn more about Plans options.
- Interested in getting a head start in learning and working in a digital world? Take ASCX 150 and develop future-ready skills!

## 2ND YEAR

- Start going deeper into the discipline of Biology, while considering a minor and/or certificate such as Media Studies. 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.
- Develop your entrepreneurial skills by participating in the Dean's Changemaker Challenge (ASCX 200/300).

## 3RD YEAR

- 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.
- Consider independent research projects in faculty labs and in the field.

## 4TH OR FINAL 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).
- Interested in working in a real-world problem with an actual client? Take ASCX 400 and develop your consulting and project management skills.

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### GET THE COURSES YOU NEED

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<thead>
<tr>
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### 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 Genetics, and the Queen's Synthetic Biology Organization (QSYNBIO).

### GET CONNECTED WITH THE COMMUNITY

- 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 THINKING GLOBALLY

- Prepare for work or studies in a multi-cultural environment by taking QUIP’s intercultural Competency Certificate, and research possible immigration regulations. Speak to a QUIP advisor to get involved in their programs, events, and training opportunities.

### GET READY FOR LIFE AFTER GRADUATION

- Grappling with program decisions? Go to Majors Night or get some help considering career options from Career Services.

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### GET THE COURSES YOU NEED

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### GET READY FOR LIFE AFTER GRADUATION

- 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.

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### What will I learn?

- A degree in Biology can equip you with:
  - 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 research-specific writing
  - Analyze and evaluate information
  - Statistical analysis of biological data
  - Solve quantitative problems

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### 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
  - Bioeconomics
  - Biotechnology
  - Chiropractic
  - Dentistry
  - Environmental conservation
  - Environmental sustainability
  - Fisheries science
  - Marine biology
  - Medicine
  - Medical technology
  - Veterinary medicine
  - Veterinary medicine

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### How to use this map

Use the 5 rows of the map to explore possibilities and plan for success in the five overlapping areas of career and academics. The map just offers suggestions - you don't have to do it all! To make your own custom map, use the My Major Map tool.
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.