

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.

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 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**

add a **CERTIFICATE**

Data Analytics

Disability and Physical Activity

Employment Relations

Entrepreneurship, Innovation and Creativity

French for Professionals

Geographic Information Science

Global Action and Engagement

Indigenous Languages and Cultures

International Studies

Media Studies

Sexual and Gender Diversity

Urban Planning Studies

[QUartsci.com/certs](https://quartsci.com/certs)

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.

Acquire Skills. Gain Experience. Go Global.

That is a degree from Queen's.

biology.queensu.ca

2023-2024

Biology MAJOR MAP

BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR



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.



3RD YEAR

Consider starting to group courses in areas of interest, or to keep it more general and explore many areas of Biology.

Consult with an [Academic Advisor](#) to make sure you're on track and have planned out your courses for next year.

Consider independent research projects in your labs and in the field.

Consider applying to research opportunities at [Queen's University Biological Station](#) or through the [Biology Undergraduate Summer Internships](#). Consider applying to do a 12-16 month [internship](#) between your third and fourth year.

Consider applying for research project funding through [ASURE \(ASUS\)](#).

Consider targeted networking with alumni or joining 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.

Develop your intercultural competence by getting involved with other cultures or by practicing and improving your language skills.

Consider focusing on areas of interest. Research the requirements for careers of interest. If needed, prepare to take any required tests (like the MCAT or GMAT) and get [help thinking about your future](#). Consider [Grad School](#) from Career Services.

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 on a real-world problem with an actual client? Take [ASCX 400](#) and develop your consulting and project-management skills.

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 Molecular Biosciences](#), [BIOTECCanada](#), [Society of Conservation Biology](#) and the [Canadian Society for Ecology and Evolution](#).

Join groups on LinkedIn reflecting specific careers or topics of interest in Biology.

International students interested in staying in Canada can speak with an [International Student Advisor](#).

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.

CONSIDER A 12-16 MONTH QUIP INTERNSHIP

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 reports/scientific writing
- Analyze and evaluate information
- Statistical analysis of biological data
- Solve quantitative problems

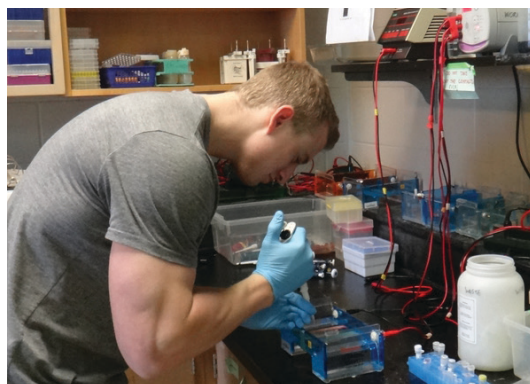
Where can I go?

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
- Bioeconomics
- Biotechnology
- Chiropractic
- Dentistry
- Environmental conservation
- Environmental sustainability
- Fisheries science
- Marine biology
- Medicine
- Medical technology
- Occupational therapy
- Oceanography
- Optometry
- 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.

Biology



Get started thinking about the future now – where do you want to go after your degree? Having tentative goals (like careers or grad school) while working through your degree can help with short-term decisions about courses and experiences, but also help you keep motivated for success.

Get the help you need

Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen's, you are never alone. We have many offices dedicated to helping you learn, think and do.

Ranging from help with academics and careers, to physical, emotional, or spiritual resources – our welcoming living and learning environment offers the programs and services you need to be successful, both academically and personally. Queen's wants you to succeed! Check out the [Student Affairs website](#) for available resources.



Biology Department
Biosciences Complex
116 Barrie Street
613-533-6344
biology.queensu.ca

QUIP QUEEN'S UNDERGRADUATE INTERNSHIP PROGRAM

START DATES

in May, September,
or January

POSITIONS

are paid and
full-time

WORK TERMS

are 12-16 months
long

PROGRAM OVERVIEW

- Graduate with a "Professional Internship" degree
- Learn about current advances, practices and technologies in business and industry.
- Test drive a career, earn a competitive salary, and get real world experience.

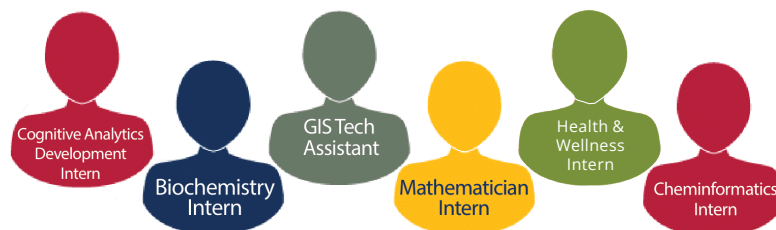
ELIGIBILITY

- 2nd or 3rd Year Students
- Minimum GPA of 1.9

WHY QUIP?

- Gain a year of career-related work experience.
- Build network connections.
- Receive support from Queen's staff in job search and during internship.

SAMPLE PAST INTERNSHIPS



For more information, contact quip@queensu.ca or visit the [Program Website](#).

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.

We're closer than you think.

