

Life Sciences

The unique group of scientists and faculty involved with Life Sciences at Queen's share a common goal: to lessen the impact of disease and trauma by training the next generation of health care scientists and professionals. One of the largest Bachelor of Science degree programs at Queen's, Life Sciences is in high demand by students who wish to pursue careers in biomedical research and health care.

TOP 5 Reasons To Study Life Sciences

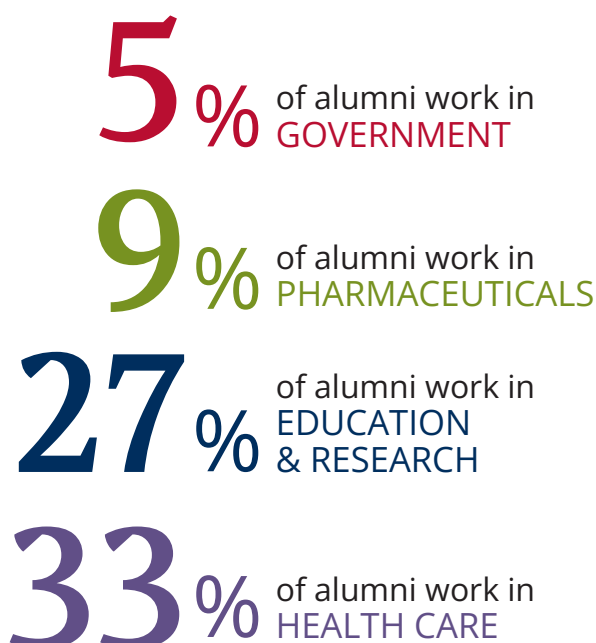
- 1 Preparation for a career in health care or biomedical research.
- 2 Cutting-edge research in drug development and human toxicology, cancer biology, genetics, reproduction, microbiology, experimental medicine, and neuroscience.
- 3 Our internship program (QUIP) offers a range of careers to explore and companies to learn from.
- 4 Summer research (SWEP) assistant positions with professors.
- 5 Home to the Cancer Research Institute, the Centre for Neuroscience Studies, and the Cardiac, Circulation, and Respiratory Group.

Alumni Story

"The Life Sciences major program offered a supportive community where I could explore various areas of science to discover where my passion was. The application-based courses provided several unique opportunities to apply course content to real life scenarios!"

-Meaghan Frank, Life Sciences Major Graduate

TOP ALUMNI JOBS



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

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)

Acquire Skills. Gain Experience. Go Global.

That is a degree from Queen's.

healthsci.queensu.ca/liscbchm

2023-2024

Life Sciences MAJOR MAP

BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR, SPECIALIZATION



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



3RD YEAR

grouping courses in areas of interest (specialization route), or to keep it more general, by exploring courses in broad subject areas through the Life Sciences Major route options even adding a Minor.

Consult with an Academic Advisor in Life Sciences and Biochemistry Program Office, to ensure you are on track.

Consider applying for a 12-16 month QUIP internship between your third and fourth year.

Consider entrepreneurial opportunities via programs like the Queen's Innovation Connector Initiative (QICSI) and the Summer Companion program.

Consider applying for a 12-16 month QUIP internship between your third and fourth year.

Engage in 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.

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

Consider focusing on areas of interest. Research educational requirements for careers of interest. If needed, prepare to take any required tests (like the MCAT) and get help in learning about Graduate School from Career Services.

Consider studying in Canada or abroad. Consult with the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

4TH OR FINAL YEAR

In fourth year, you will develop skills of inquiry on advancing research applications in industry and academia and explore governmental regulations and ethics in research and information dissemination.

SSP students will participate in an honours thesis project that can lead to Graduate School or a future career in Medicine, Health Research, or Biotechnology, etc.

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 workshops to build new skills. Participate in Inquiry @ Queen's undergraduate student conference.

Consider joining professional associations like the [Analytical, Life Science & Diagnostics Association](#).

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

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. Attend Town Hall meetings offered by the Associate Dean, Life Sciences, Biochemistry and Health Sciences and provide input into the Program.

What will I learn?

A degree in Life Sciences can equip you with:

- Knowledge of the cellular structures, organic systems, organic chemistry, and the functions of the human body
- Understanding of statistical research methods, the scientific method and experimental design
- Research skills leading to an ability to draw relevant information out of a large amount of data
- Fieldwork skills to design and carry out site investigations to solve problems
- Experience working in a laboratory setting and operating equipment
- Attention to detail to analyze and interpret scientific data
- Problem solving to adopt a systematic approach to problems
- Oral and written communication for laboratory reports and presenting reports to group
- Time and resource management

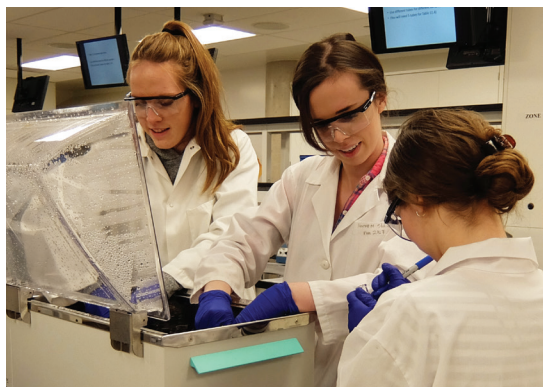
Where can I go?

A degree in Life Sciences can take your career in many directions. Many students choose to continue their academic inquiry with a Master's degree. Our students are equipped with a strong foundation for careers in:

- Animal research
- Drug development
- Epidemiology
- Food science and technology
- Genetics
- Medical and clinical research
- Neuroscience
- Optometry
- Public health
- Toxicology

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

Life Sciences



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.



Queen's
UNIVERSITY

**ARTS AND
SCIENCE**

Faculty of Health Sciences
Botterell Hall, Room 815
18 Stuart Street
613-533-6527

healthsci.queensu.ca/liscbchm

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.

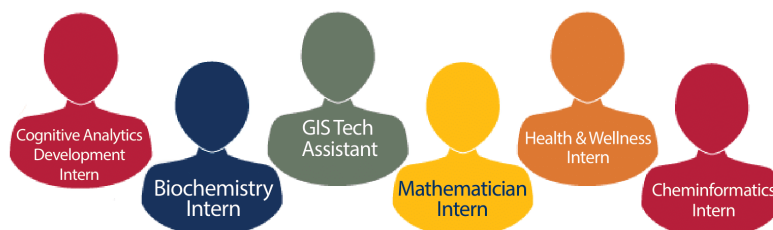
ELIGIBILITY

- 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.

