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.
   - Cutting-edge research in drug development and human toxicology, cancer biology, genetics, reproduction, microbiology, experimental medicine, and neuroscience.

2. Our internship program (QUIP) offers a range of careers to explore and companies to learn from.

3. Summer research (SWEP) assistant positions with professors.

4. 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**

- **5%** of alumni work in **GOVERNMENT**
- **9%** of alumni work in **PHARMACEUTICALS**
- **27%** of alumni work in **EDUCATION & RESEARCH**
- **33%** of alumni work in **HEALTH CARE**

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](http://quartsci.com/planselection)

[QUartsci.com/certs](http://QUartsci.com/certs)

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

That is a degree from Queen’s.  
[healthsci.queensu.ca/liscbcmh](http://healthsci.queensu.ca/liscbcmh)
2023-2024

Life Sciences MAJOR MAP
BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR, SPECIALIZATION

1ST YEAR
Direct entry students (QL) will have the chance to explore the foundations of Life Sciences in biology, chemistry, math and physics along with CISC 151/3U and PATH120/3U or BCHM 102/3U in your first year.
Students transferring into Life Sciences in second year (QS) will have the chance to explore the foundations of Life Sciences in biology, chemistry, math and physics along with some electives.

2ND YEAR
Start going deeper into the discipline of Life Sciences, while considering a minor and/or certificate such as Disability and Physical Activity.
Learn more about Certificates and Internship options.
Visit SASS (Student Academic Support Services) and the Writing Centre for help improving your study habits and academic writing skills.

3RD YEAR
Start thinking about Graduate School from Career Services.
Wondering about career options? Check out Career Services.
Attend Information Sessions in November and January hosted by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

GET THE COURSES YOU NEED
Join teams or clubs on campus such as the Synthetic Biology Organization, Queen's First Aid or Universities Allied for Essential Medicine.
See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

GET RELEVANT EXPERIENCE
Get involved with the Departmental Student Council (DSC).
Consider becoming a tutor or mentor through the ASUS programs. Volunteer on or off-campus with different community organizations, such as Let's Talk Science (LTS), Queen's Union on Tropical Access to Health, Science Rendezvous and the Queen's iGEM Team or local charities.

GET CONNECTED WITH THE COMMUNITY
Get involved with the Departmental Student Council (DSC).
Consider becoming a tutor or mentor through the ASUS programs. Volunteer on or off-campus with different community organizations, such as Let's Talk Science (LTS), Queen's Union on Tropical Access to Health, Science Rendezvous and the Queen's iGEM Team or local charities.

GET THINKING GLOBALLY
Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural Competency Certificate, and research possible immigration regulations.
Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.

GET READY FOR LIFE AFTER GRADUATION
Attend Majors Night to learn more about Life Sciences' programs.
Wondering about career options? Check out Career Services.
Attend Information Sessions in November and January hosted by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

Is an exchange in your future? Start thinking about where you would like to study abroad.
Apply in January for a third year exchange opportunity.
Volunteer during the summer, work in a laboratory, or apply for an external summer research opportunity.
Connect with professors at socials or extracurriculars. Consider volunteering with Student Wellness Services or other health centres.

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

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

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

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

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
Start 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 perhaps even adding a Minor.

Meet with an Academic Advisor in Life Sciences and Biochemistry Program Office, to make sure you are on track.

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.

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.

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.

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.
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.

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.