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 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

**alumni STORY**

“Life Sciences opened my eyes to the opportunities and careers available in the science field. The hands-on labs gave me practical experience that was extremely valuable for my subsequent studies.”

- Jan Slipka, BScH ’14

**2018-19 thresholds**

- 3.2 cGPA AUTOMATIC ACCEPTANCE min pass in CHEM 112
- 2.0 cGPA PENDING LIST min pass in CHEM 112

*Thresholds are made on a competitive basis and are updated annually. For the latest information please visit: QUartscl.com
LIFE SCIENCES MAJOR MAP

1ST YEAR
In first year you will have the chance to explore the foundations of Life Sciences in biology, chemistry, geography and geology along with some electives.

- Attend Majors Night in the Winter term to learn more about Plan options.
- See the back page for specific courses to consider.

2ND YEAR
Start going deeper into the discipline of Life Sciences, while considering a minor and/or certificate such as Disability and Physical Activity. 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 SASS (Student Academic Support Services) and the Writing Centre for some help.

3RD YEAR
A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Life Sciences. Meet with an Academic Advisor to make sure you are on track and have planned out your courses for next year — for some ideas, see the back page.

- Consider applying to do a 12-16 month QUIP internship between your third and fourth year.
- Consider targeted networking with alumni working in careers of interest by joining the LinkedIn group Analytical, Life Science & Diagnostics Association.
- Consider joining professional associations like the Canadian Undergraduate Conference on Biotechnology.

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 your future career path. Make sure to finish up all your courses for your degree and your optional certificate(s).

- Investigate requirements for full-time jobs or other opportunities related to careers of interest.
- Assess what experience you’re lacking and fill it in to prepare for your career.

CONSIDER A 12-16 MONTH QUIP INTERNSHIP

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

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
- Look into summer jobs by talking to the dept. or Career Services about work through SWEP or NSERC.
- Take more responsibility within different clubs or extracurricular activities.
- Consider volunteering at Student Wellness Services or other health centres.

GET CONNECTED WITH THE COMMUNITY
- Consider getting involved with the Departmental Student Council (DSC).
- Start or continue volunteering with organizations such as the Canadian Undergraduate Conference on Healthcare (CUCOH).
- Do 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
- 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 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:
- Animal research
- Drug development
- Epidemiology
- Food science and technology
- Genetics
- Medical and clinical research
- Neuroscience
- Optometry
- Public health
- Toxicology

GET READY FOR LIFE AFTER GRADUATION
- Grappling with program decisions? Go to Majors Night or get some help wondering about career options from Career Services.
- Attend Information Sessions in November and January offered by the Associate Dean, Life Sciences and Biochemistry.
Sample Year by Year

1ST YEAR
- BIOL 102/3.0
- BIOL 103/3.0
- CHEM 112/6.0
- 6.0 units from PHYS 104/6.0, PHYS 106/6.0, PHYS 117/6.0
- 6.0 units from MATH 120/6.0, MATH 121/6.0, (MATH 123/3.0 and MATH 124/3.0)
- 6.0 units of electives

2ND YEAR
- BCHM 281/3.0
- MICR 221/3.0 or MICR 271/3.0
- CHEM 281/3.0
- CHEM 282/3.0
- PHGY 215/3.0
- PHGY 216/3.0
- 12.0 units of electives and/or minor

3RD YEAR
- 15.0 units from LISC_List_A at the 300 level or above
- 15.0 units of electives and/or minor

4TH YEAR
- 12.0 units from LISC_List_A
- 3.0 units from LISC_List_A at the 400 level or above
- 15.0 units of electives and/or minor

* Please note if you were admitted to the Plan prior to May 2018 your requirements are slightly different.

Note that degree requirements are revised regularly. The most current requirements, including course lists and options, are found in the Academic Calendar at: QUartsci.com/academic-calendar