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 ALUMNI JOBS**

<table>
<thead>
<tr>
<th>Reason</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Preparation for a career in health care or biomedical research.</td>
<td>5% GOVERNMENT</td>
</tr>
<tr>
<td>2. Cutting-edge research in drug development and human toxicology, cancer biology, genetics, reproduction, microbiology, experimental medicine, and neuroscience.</td>
<td>9% PHARMACEUTICALS</td>
</tr>
<tr>
<td>3. Our internship program (QUIP) offers a range of careers to explore and companies to learn from.</td>
<td>27% EDUCATION &amp; RESEARCH</td>
</tr>
<tr>
<td>4. Summer research (SWEP) assistant positions with professors.</td>
<td>33% HEALTH CARE</td>
</tr>
</tbody>
</table>

**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

**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.

healthsci.queensu.ca/liscbchm
Life Sciences
BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR, SPECIALIZATION

1ST YEAR
Direct entry students (QS) 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. Interested in getting a head start in learning and working in a digital world? Take ASCX 150 and develop future-ready skills!

GET RELEVANT EXPERIENCE
Join teams or clubs on campus such as the Synthetic Biology Organization, Queen’s First Aid, Queen’s Quip, Society for Essential Medicine, or the AMS Clubs Directory or the Queen’s Get Involved page for more ideas.

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
Be involved with the Departmental Student Council (DSC). Connect with professors at events or extracurriculars. Consider volunteering with Student Wellness Services or other health centres.

Prepare for work or studies in a multi-cultural environment by taking the Quick Intercultural Competency Certificate, and research possible immigration regulations.

Speak to a Quick 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.

Attend Information Sessions in November and January hosted by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

Explore different careers of interest in the Career Services Career Advising and Resource Area. For more information, connect with alumni on LinkedIn.

Attend Canadians Studying Medicine Abroad offered by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

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

Attend Canadians Studying Medicine Abroad hosted by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

International students interested in staying in Canada can speak with an International Student Advisor.

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 experiences, and network can help you have a smooth transition to the world of work after graduation.

For more information, connect with Queen’s Connects, Queen’s iGEM Team or local charities. Check out Career Services skills workshops.

Volunteer during the summer, work in a laboratory, or apply for an external summer research opportunity.

Consider entrepreneurial opportunities via programs like the Queen’s Innovation Connector Summer Initiative (QICI) and the Summer Company program.

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

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

Volunteer during the summer, work in a laboratory, or apply for an external summer research opportunity.

Consider entrepreneurial opportunities via programs like the Queen’s Innovation Connector Summer Initiative (QICI) and the Summer Company program.

Consider applying for a 12-16 month QUIP internship to build new skills. Participate in Inquiry @ Queen’s undergraduate student conference.

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Attend Canadians Studying Medicine Abroad hosted by the Associate Dean, Life Sciences, Biochemistry, and Health Sciences.

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.

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, Research Health, or Biotechnology, etc.

Interested in working on a real-world problem with an actual client? Take ASCX 400 and develop your consulting and project-management skills.

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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.

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Interested in working on a real-world problem with an actual client? Take ASCX 400 and develop your consulting and project-management skills.
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.