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.

REASONS TO Study LIFE SCIENCES

- 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.
- Our internship program (QUIP) offers a range of careers to explore and companies to learn from.
- Summer research (SWEP) assistant positions with professors.
- 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

TOP ALUMNI JOBS

5 % of alumni work in GOVERNMENT

of alumni work in PHARMACEUTICALS

of alumni work in EDUCATION & RESEARCH

33% of alumni work in HEALTH CARE

add a CERTIFICATE

Data Analytics

Disability and Physical Activity

Employment Relations

Geographic Information Science

Indigenous Languages and Cultures

Sexual and Gender Diversity

Urban Planning Studies

QUartsci.com/certs

2025-26 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? Check in with your department to learn more about what opportunities and resources are available for you!

Acquire Skills. Gain Experience. Go Global.

That is a degree from Queen's.

healthsci.queensu.ca/liscbchm

Life Sciences MAJOR MAP

BACHELOR OF SCIENCE: HONOURS DEGREE (SPECIALIZATION/MAJOR/MINOR) OR GENERAL DEGREE



GET THE COURSES YOU NEED

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

1ST 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, or Universities Allied for Essential Medicine.

See the AMS Clubs Directory or the Queen's Get <u>Involved</u> page for more ideas.

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 ENGAGED GLOBALLY

GET CAREER

READY

GET ENGAGED

COMMUNITY

WITH THE

Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural Awareness Certificate, and research possible immigration regulations.

Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.

Attend Majors Night to learn more about Life Sciences' programs.

Wondering about career options? Check out Career Services

Attend information sessions hosted by the Director of Life Sciences in the Fall and Winter Terms.

Is an exchange in your future? Start thinking about where you would like to study abroad. Apply in January for a third year exchange

Explore different careers of interest in the

Area. For more information, connect with

using the Queen's Career Guide to the UN

Sustainable Development Goals.

alumni on LikedIn.

Career Services Career Advising and Resource

Find impactful work that aligns with your values

2ND YEAR

options.

writing skills.

Start going deeper into the discipline of Life

Sciences, while considering a minor and/or

certificate such as Disability and Physical Activity.

Visit SASS (Student Academic Success Services) for

Look into summer jobs by talking to the dept. or

programs like the Queen's Innovation Connector

Summer Initiative (QICSI). Consider volunteering

with Student Wellness Services or other health

Get involved with the Departmental Student

on Healthcare (CUCOH) and Médecins Sans

Frontières (Doctors Without Borders).

Council (DSC). Connect with professors at socials

Start or continue volunteering with organizations

such as the Canadian Undergraduate Conference

Consider entrepreneurial opportunities via

centres. Take more responsibilities within

Career Services for SWEP or NSERC

different clubs or extracurriculars.

or attend speaker events.

help improving your study habits and academic

Learn more about Certificates and Internship

Build your intercultural competence by getting involved with other cultures or by practicing or improving your language skills. through the International Programs Office.

> 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.

4TH OR FINAL YEAR

In fourth year, you will develop skills of inquiry on

academia and explore governmental regulations an

ethics in research and information dissemination.

SSP students will participate in an honours thesis

project that can lead to Graduate School or a

Investigate requirements for full-time jobs

and fill in gaps with volunteering, clubs, or

to build new skills. Participate in Inquiry @

Queen's undergraduate student conference.

or other opportunities related to careers of

interest. Assess what experience you're lacking

Check out the Career Services skills workshops

Biotechnology, etc.

internships.

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future career in Medicine, Health Research, or

advancing research applications in industry and

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.

3RD YEAR

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

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

Consider entrepreneurial opportunities via programs like the Queen's Founders and Innovators Initiative (QFII), and the Summer Company program.

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

Do targeted networking with alumni working in careers of interest through LinkedIn. Check out Career Services networking workshops.

Connect with professors at events or workshops hosted by the DSC.

Consider joining Life Sciences Ontario as a student member.

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

Attend town hall meetings offered by the Director of Life Sciences and provide input into the program.

Knowledge & Workplace Skills

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

Career Possibilities

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

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.

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 <u>Student Affairs</u> website for available resources.



ARTS AND SCIENCE

Faculty of Health Sciences
Botterell Hall, Room 815

18 Stuart Street
613-533-6527
lifesci@queensu.ca
healthsci.queensu.ca/liscbchm

QUI P 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 "Professional Internship" on your degree
- Learn about current advances, practices and technologies in business and industry
- Explore a career path, earn a salary, and build workplace skills

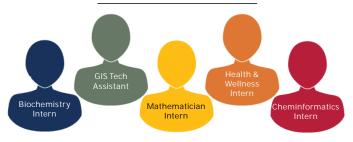
ELIGIBILITY

- Complete 1st year before you register
- Complete 2nd or 3rd year before your internship
- Minimum GPA of 1.9
- Return to Queen's after your internship to finish your degree

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?

Since 1841, 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

th Ne're doser than you think 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 CANADA London / 7 hrs the experience of a Oueen's Beijing / 15 hrs lifetime at Queen's Dubai / 14 hrs - and graduate Calgary / 4 hrs Vancouver / 5 hrs with a degree that is globally Halifax / 2 hrs San Francisco / 5.5 hrs Kingston recognized among Denver/3 hrs New York / 1.5 hrs UNITED the best. STATES Atlanta / 2 hrs Bermuda / 2 hrs