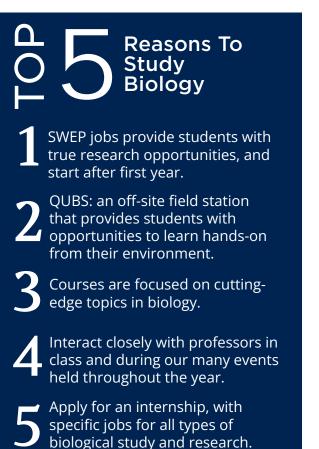
Biology

Few fields can compare to the revolutionization Biology has seen in the past several decades. Our ability to address cutting-edge problems at scales from molecules to ecosystems puts Biology at the centre of solutions to some of the most pressing questions and crises facing our planet – from the inner workings of cells to the origins and conservation of species. Our programs emphasize interactive learning with hands-on laboratories, field courses, small senior seminar modules, and independent research.



Alumni Story

"The Queen's Biology program was very wellrounded and definitely played a major role in helping to get where I am today. Not only did I learn a lot from the courses, but I also had the opportunity to do an independent research project and spend a summer doing fieldwork at Queen's University Biological Station." -Sharon Zhang, BSCH '13 TOP ALUMNI JOBS

10% of alumni work in GOVERNMENT & NON-PROFIT 13% of alumni work in BUSINESS & LAW 16% of alumni work in HEALTH CARE 35% of alumni work in EDUCATION

2024-25 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 <u>quartsci.com/planselection</u>

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.

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

Acquire Skills. Gain Experience. Go Global.

That is a degree from Queen's.

biology.queensu.ca

Biology Major Map

BACHELOR OF SCIENCE (HONOURS): MAJOR, MINOR

	1ST YEAR	2ND YEAR	3RD YEAR		4TH OR FII
GET THE COURSES YOU NEED	In first year you will have the chance to explore the foundations of Biology in biology, chemistry, geography, and geology along with some electives. Attend <u>Majors Night</u> in the Winter term to learn more about Plan options. Interested in getting a head start in learning and working in a digital world? Take <u>ASCX 150</u> and develop future-ready skills!	Start going deeper into the discipline of Biology, while considering a minor and/or certificate such as <u>Media Studies</u> . Learn more about <u>Certificates</u> and <u>Internship</u> options. Want to make sure your academics are where you want them to be? Visit <u>SASS (Student Academic</u> <u>Support Services)</u> and the Writing Centre for some help. Develop your entrepreneurial skills by participating in the <u>Dean's Changemaker</u>	A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Biology. Meet with an <u>Academic Advisor</u> to make sure you are on track and have planned out your courses for next year. Consider independent research projects in faculty labs and in the field.	ERNSHIP	In fourth year you we participate in reseat can lead to Graduat career path. Make se courses for your minor and/or certife Interested in working problem with an act and develop your comanagement skills.
GET RELEVANT EXPERIENCE	Join teams or clubs on campus such as <u>Queen's</u> First Aid, the Queen's Association for Technology in Medicine and Biology (QATMB), the <u>Queen's</u> Genetically Engineered Machine Team (QGEM) and the <u>Queen's Synthetic Biology Organization</u> (QSYNBIO). See the <u>AMS Clubs Directory</u> or the <u>Queen's Get Involved</u> page for more ideas.	Challenge (ASCX 200/300). Volunteering is a great way to get practical experience and build your Resume towards getting Biology jobs during your degree. Look into summer jobs by talking to the department or Career Services about work through <u>SWEP</u> or <u>NSERC</u> .	Consider applying to research opportunities at <u>Queen's University Biological Station</u> or through the <u>Biology Undergraduate Summer</u> <u>awards</u> . Consider applying to do a 12-16 month <u>QUIP internship</u> between your third and fourth year. Consider applying for research project funding through <u>ASURF (ASUS)</u> .	TH QUIP INT	Investigate requirer or other opportunit interest. Assess wha and fill in gaps with internships – check skills workshop for @ Queen's undergre
GET ENGAGED WITH THE COMMUNITY	Volunteer on- or off-campus with different community organizations, such as <u>Queen's</u> <u>Health Outreach, Let's Talk Science</u> , and <u>Women</u> in <u>Science & Engineering at Queen's University</u> (<u>WISE</u>).	Get involved with the Departmental Student Council (DSC). Start or continue volunteering with organizations. If interested, attend conferences and talks like the <u>Canadian Undergraduate Conference on</u> <u>Healthcare (CUCOH)</u> .	Do some targeted networking with alumni working in careers of interest by joining the LinkedIn group Queen's Connects. Check out Career Services <u>networking workshops</u> . Connect with professors at events or workshops hosted by the DSC.	12-16 MON	Consider joining pro like <u>Canadian Societ</u> <u>Biosciences, BIOTEC</u> <u>Conservation Biolog</u> <u>Society for Ecology</u> Join groups on Linke careers or topics of
GET ENGAGED GLOBALLY	Prepare for work or studies in a multi-cultural environment by taking QUIC's Intercultural. <u>Competency Certificate</u> , and research possible immigration regulations. Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.	Is an exchange in your future? Start thinking about where you would like to <u>study abroad</u> . Apply in January for a third year exchange through <u>the International Programs Office</u> . Look into a <u>BIOL 307/317</u> Field Biology International Program.	Build your intercultural competence by getting involved with other cultures or by practicing and improving your language skills.	CONSIDER A	International stude in Canada can spea <u>Student Advisor</u> .
GET CAREER READY	Grappling with program decisions? Go to <u>Majors</u> Night or get some help <u>considering career</u> options from Career Services. Build your transferable skills in time management, problem-solving, writing, and more with <u>Student Academic Success Services</u> .	Explore different careers of interest in the Career Services Information Area. For more information check out <u>Career Cruising</u> or by finding and connecting with alumni on <u>LinkedIn</u> .	Start focusing on areas of interest. Research education requirements for careers of interest. If needed, prepare to take any required tests (like the MCAT or GMAT) and get <u>help thinking</u> <u>about Grad School</u> from Career Services.		Apply to jobs or futu plans for other adve Career Services with <u>interviews, Grad Scl</u> other decisions.

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 <u>My Major Map</u> tool.



INAL YEAR

ou will have the chance to search-based courses that luate School or to your future ke sure to finish up all your major and your optional rtificate(s).

king on a real-world actual client? Take <u>ASCX 400</u> r consulting and projectlls.

rements for full-time jobs nities related to careers of /hat experience you're lacking th volunteering, clubs, or ck out the <u>Career Services</u> or help. Participate in <u>Inquiry</u> graduate student conference.

professional associations <u>ciety for Molecular</u> <u>(ECanada, Society of</u> <u>logy</u> and the <u>Canadian</u> <u>gy and Evolution</u>.

nkedIn reflecting specific of interest in Biology.

dents interested in staying beak with an <u>International</u>

uture education, or make dventures. Get help from vith job searching, resumes, School applications, or

Knowledge & Workplace Skills

A degree in Biology can equip you with:

- Develop knowledge of biological functions
- Use laboratory equipment and instruments
- Gain hands-on experience studying biology in the field
- Comply with quality control and safety regulations
- Collect and preserve organisms
- Design experimental studies
- Present literature and research findings in posters and seminars
- Observe and make measurements
- Write, review, and summarize reports/scientific writing
- Analyze and evaluate information
- Statistical analysis of biological data
- Solve quantitative problems

Career Possibilities

A degree in Biology can take your 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:

- Agricultural Sciences
- Bioeconomics
- Biotechnology
- Chiropracty
- Dentistry
- Environmental conservation
- Environmental sustainability
- Fisheries science
- Marine biology
- Medicine
- Medical technology
- Occupational therapy
- Oceanography
- Optometry
- Pharmacology
- Physical therapy
- Toxicology
- Veterinary medicine

Taking time to explore career options, build experience, and network can help you have a smooth

Biology



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

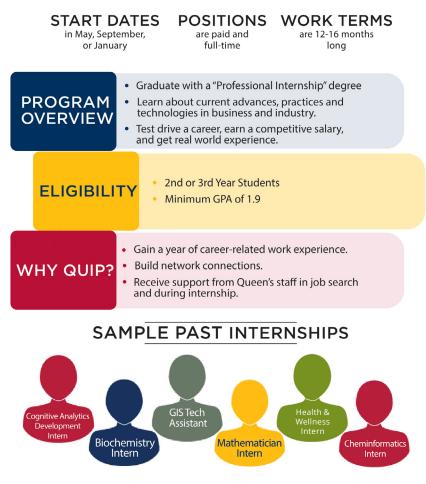
Queen's provides you with a broad range of support services from your first point of contact with the university through to graduation. At Queen's, you are never alone. We have many offices dedicated to helping you learn, think and do.

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.



Biology Department Biosciences Complex 116 Barrie Street 613-533-6344 biology.queensu.ca

QUIPQUEEN'S UNDERGRADUATE



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 guick drive

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.

versity than you think to Toronto, Montreal, Ottawa and even New York. A university with more clubs per London / 7 hrs CANADA Queen's Beijing / 15 hrs Dubai / 14 hrs Calgary / 4 hrs Vancouver / 5 hrs Halifax / 2 hrs San Francisco / 5.5 h Kingston Toronto Denver/3 hrs New York / 1.5 hrs UNITED STATES Dallas / 3.5 hrs Atlanta / 2 hrs