Humans and other animals have more in common than you might think. From neurological systems to patterns of behaviour, this four year Specialization Plan fuses core elements from Biology and Psychology and allows considerable opportunity for upper year specialization and independent study. With an emphasis on cross-disciplinary interaction and integration, the “BioPsych” Specialization explores both commonalities and uniquely human features of brain, behaviour and cognition.

### TOP 5 REASONS to study BIOLOGY

1. **SWEP jobs** provide students with true research opportunities, and start after first year.
2. **QUBS**: an off-site field station that provides students with opportunities to learn hands-on from their environment.
3. Courses are focused on cutting-edge topics in biology.
4. Interact closely with professors in class and during our many events held throughout the year.
5. Apply for an internship, with specific jobs for all types of biological study and research.

### 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**

### ALUMNI STORY

“The Queen’s Biology program was very well-rounded 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

### 2018-19 thresholds

- NO AUTOMATIC ACCEPTANCE
- **1.9 cGPA** PENDING LIST
  - min B- in PSYC 100

*Thresholds are made on a competitive basis and are updated annually. For the latest information please visit: [QUartsci.com](http://QUartsci.com)*
BIOLOGY AND PSYCHOLOGY

SPECIALIZATION MAP

SPECIALIZATION BACHELOR OF SCIENCE (HONOURS)

1ST YEAR

GET THE COURSES YOU NEED

In first year you will have the chance to explore the foundations of Biology and Psychology in biology, chemistry, geography, psychology and geology along with some electives.

See the back page for specific courses to consider.

Attend Majors Night in the Winter term to learn more about Plan options.

GET RELEVANT EXPERIENCE

Join teams or clubs on campus such as: Queen's First Aid, the Queen's Association for Technology in Medicine and Biology (QITMB), the Queen’s Genetically Engineered Machine Team (QGEM) and the Queen's Synthetic Biology Organization (QSYNOB). See the AMS Clubs Directory or the Queen's Get Involved page for more ideas.

GET CONNECTED WITH THE COMMUNITY

Volunteer on or off-campus with different community organizations, such as Queen's Health Outreach, Let's Talk Science, and Women in Science & Engineering at Queen's University (WISE).

GET THINKING GLOBALLY

Prepare for work or study in a multi-cultural environment by taking QUC's Intercultural Competency Certificate, and research possible immigration regulations.

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

GET READY FOR LIFE AFTER GRADUATION

Grappling with program decisions? Go to Majors Night or get some help considering career options from Career Services.

Build your transferable skills in time management, problem-solving, writing and more with Student Academic Success Services.

2ND YEAR

GET THE COURSES YOU NEED

Start going deeper into the discipline of Biology and Psychology, while considering a certificate such as Media Studies. 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.

GET RELEVANT EXPERIENCE

Volunteering is a great way to get practical experience and build your CV towards getting Biology jobs during your degree.

Look into summer jobs by talking to the department or Career Services about work through SWEP or NSERC.

GET CONNECTED WITH THE COMMUNITY

Get involved with the Departmental Student Council (DSC). Start or continue volunteering with organizations.

If interested, attend conferences and talks like the Canadian Undergraduate Conference on Healthcare (CUCOH).

GET THINKING GLOBALLY

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

Look into a BIOL 307/317 Field Biology International Program.

GET READY FOR LIFE AFTER GRADUATION

Explore different careers of interest by reading books in the Career Services Information Area, such as Opportunities in Biotechnology Careers. For more information check out Career Cruising or by finding and connecting with alumni on LinkedIn.

3RD YEAR

GET THE COURSES YOU NEED

A chance to start grouping courses in areas of interest, or to keep it more general and explore many areas of Biology and Psychology. 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.

GET RELEVANT EXPERIENCE

Consider applying to research opportunities at Queen's University Biological Station or through the Biology Undergraduate Summer awards.

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

GET CONNECTED WITH THE COMMUNITY

Do some 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

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

GET READY FOR LIFE AFTER GRADUATION

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 help thinking about Grad School from Career Services.

4TH OR FINAL YEAR

GET THE COURSES YOU NEED

In fourth year you will have the chance to participate in research-based courses that can lead to Graduate School or to your future career path. Make sure to finish up all your courses for your degree and your optional certificate(s).

GET RELEVANT EXPERIENCE

Investigate requirements for full-time jobs or other opportunities related to careers of interest. Assess what experience you’re lacking and fill in gaps with volunteering, clubs, or internships – check out the Career Services skills workshop for help. Participate in Inquiry @ Queen's undergraduate student conference.

GET CONNECTED WITH THE COMMUNITY

Consider joining professional associations like Canadian Society for Molecular BioSciences, BIOTECanada, and the Canadian Society for Ecology and Evolution.

Join groups on LinkedIn reflecting specific careers or topics of interest in Biology.

GET THINKING GLOBALLY

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

GET READY FOR LIFE AFTER GRADUATION

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.

SPECIALIZATION MAP

What will I learn?
A degree in Biology can equip you with valuable and versatile skills, such as:

• 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

Where can I go?
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:

• Bioeconomics
• Bioethics
• Community health
• Epidemiology
• Government regulators
• Health administration
• Medical research
• Medical technology
• Occupational therapy
• Pharmaceutical sales
• Pharmacology
• Physical therapy
• Social counseling
• Teaching
• Veterinary medicine

Taking time to explore career options, build experience and network can help you make a smooth transition to the world of work after graduation.
Sample Year by Year

1ST YEAR
- CHEM 112/6.0
- BIOL 102/3.0
- BIOL 103/3.0
- PSYC 100/6.0
- 12.0 units of electives

2ND YEAR
- BIOL 201/3.0
- BIOL 202/3.0
- BIOL 205/3.0
- BIOL 206/3.0
- BIOL 243/3.0 or PSYC 202/3.0
- PSYC 203/3.0
- 6.0 units from PSYC options at the 200 level
- 6.0 units of electives

3RD YEAR
- BIOL 300/3.0
- BIOL 330/3.0
- 3.0 units from BIOL 339/3.0, BIOL 334/3.0, BIOL 341/3.0
- 3.0 units from BIOL at the 300 level or above
- 6.0 units from PSYC options at the 200 level
- 3.0 units from PSYC options
- 9.0 units of electives

4TH YEAR
- 6.0 units from BIOL at the 300 level or above or BIOL options
- 3.0 units from PSYC labs
- 12.0 units from PSYC options
- 9.0 units of electives

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