BIOLOGY AND PSYCHOLOGY
Specialization, Bachelor of Science (Honours) | degree PLAN

GET THE COURSES YOU NEED

Sample Year by Year

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

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

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

4TH YEAR
- 60 units from BOL at the 300 level or above or BOL options
- 3.0 units from PSYC labs
- 12.0 units from PSYC options
- 60 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: QUArsci.com/academic-calendar

BIOLOGY AND PSYCHOLOGY
BIPS-P-BSH Specialization (Science) Bachelor of Science (Honours)

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

“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

ALUMNI STORY

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2018-19 thresholds

NO AUTOMATIC ACCEPTANCE

1.9cGPA PENDING LIST
min B- in PSYC 100

*Thresholds are made on a competitive basis and are updated annually. For the latest information please visit QUArsci.com

Queens University
Faculty of Arts and Science
BioHealth Complex
316 Barrie Street
613-533-6344
biology-queensu.ca
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 (QATMB)**, 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.
  - 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 SWEF or NSERC.

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

- **GET THINKING GLOBALLY**
  - Prepare for work or studies in a multi-cultural environment by taking QUC’s Intercultural Competency Certificate, and research possible immigration regulations.
  - Speak to a QUIC advisor to get involved in their programs, events, and training opportunities.
  - 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.

- **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.
  - 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 SWEF or NSERC.

- **GET RELEVANT EXPERIENCE**
  - Get involved with the Departmental Student Council (DSC). Start or continue volunteering with organizations.
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### 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.
  - 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 QISP internship between your third and fourth year.

- **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 at Queen’s undergraduate student conference.

- **GET CONNECTED WITH THE COMMUNITY**
  - Consider joining professional associations like the **Canadian Society for Molecular BioSciences**, **BIO3 Canada**, and the **Canadian Society for Ecology and Evolution**. Join groups on LinkedIn reflecting specific careers or topics of interest in Biology.
  - International students interested in staying in Canada can speak with an International Student Advisor.

- **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**
  - 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 Graduate School from Career Services.
  - 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.

### 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).
  - 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 at Queen’s undergraduate student conference.

- **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 at Queen’s undergraduate student conference.

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  - Consider joining professional associations like the **Canadian Society for Molecular BioSciences**, **BIO3 Canada**, and the **Canadian Society for Ecology and Evolution**. Join groups on LinkedIn reflecting specific careers or topics of interest in Biology.

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### 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
- Biotechs
- Community health
- Epidemiology
- Government regulators
- Health administration
- Medical research
- Medical technology
- Occupational therapy
- Pharmaceutical sales
- Pharmacology
- Physical therapy
- Social counselling
- Teaching
- Veterinary medicine

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