

## Department of Biology

### BIOL & PSYC Specialization Degree Plan

### Wondering what courses to take?

#### Common First Two Years (BSCH BIPS)

##### Year One:

F	<b>introduction to biology of cells</b> (BIOL-102)
FW	<b>Calculus</b> (MATH-122 or 121 or 120)
FW	<b>General Chemistry</b> (CHEM-112 or 110)
W	<b>introduction to biology of organisms</b> (BIOL-103)
FW	<b>Principles of Psychology</b> (PSYC-100)

*Recommended: Calculus (Math-122 or 121 or 120)*

*Plus elective courses*

##### Year Two:

F	<b>diversity of life I</b> (BIOL-201)
F	<b>introduction to molecular genetics</b> (BIOL-205)
F	<b>data management</b> (BIOL-243) <u>OR</u>
F	<b>statistics in psychology</b> (PSYC 202)
F	<b>3.0 unit PSYC at the 200-level (Cluster A/B)</b>
W	<b>research methods in psychology</b> (PSYC 203)
W	<b>diversity of life II</b> (BIOL-202)
W	<b>evolutionary genetics</b> (BIOL-206)
W	<b>3.0 unit PSYC at the 200-level (Cluster A/B)</b>

*Plus elective courses*

##### Year Three:

F	<b>population &amp; evolutionary ecology</b> (BIOL-302) <u>OR</u>
W	<b>community &amp; ecosystem ecology</b> (BIOL-303)
	<i>and</i>
F	<b>cell biology</b> (BIOL-330) <u>OR</u>
W	<b>gene structure &amp; function</b> (BCHM-218)
	<i>and</i>
F	<b>animal physiology</b> (BIOL-339) <u>OR</u>
W	<b>plant physiology</b> (BIOL-341) <u>OR</u>
FW	<b>A/D)</b>

##### Year Four:

FW	<b>units Cluster A; 3.0 LAB at the 300-level</b>
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*Plus elective or concentration courses*

F (fall term), W (winter term), FW (both fall and winter terms)

## Department of Biology

### Looking for suggestions?

**Ecology & Evolutionary Biology stream**--suggested courses: Cell Biology (BIOL-330), Field Studies (BIOL-307), Macroevolution (BIOL-440), Natural Selection/Microevolution (BIOL-439), Conservation Biology (BIOL-422).

**Plant Sciences stream**--suggested courses: Ecology (BIOL-302), Plant Physiology (BIOL-341), Genomics (BIOL-331), Techniques in Molecular Biology (BIOL-404), Plants for People (BIOL-315).

**Integrated Animal Biology stream**--suggested courses: Ecology (BIOL-302), Animal Physiology (BIOL-339), Animal Behaviour (BIOL-321), Environmental Physiology of Animals (BIOL-322), Cell Biology (BIOL-330), Cellular Basis of Adaptation (BIOL-431), Neuroethology (BIOL-445).

**Genetics and Molecular Biology stream**--suggested courses: Ecology (BIOL-302), Molecular Biology (BCHM-218), Cell Biology (BIOL-330), Analytical Genomics (BIOL-331), Techniques in Molecular Biology (BIOL-404), Molecular Genetics of Development (BIOL-430), Molecular Genetics (BIOL-441).

#### **Suggested First Year Electives**

GEOL-107	History of Life
PSYC-100	Psychology
PHYS-107	Introductory Physics
ENGL-110	Introduction to English Literature
ENGL-168/169	Modern Literature in English
GEOL-105	Environmental Geology
GPHY-100	Geography and the Environment

For more information, including detailed information on requirements for biology degree programs as well as biology courses that can be used to fill option courses in upper years, please refer to the Faculty of Arts and Science Calendar.