BIOLOGY MAJOR CONCENTRATION (B.A. & SC.) (36 CREDITS)

Offered by: Biology (Faculty of Science)
Degree: Bachelor of Arts and Science
Program credit weight: 36

Program Description

The B.A. & Sc.; Major Concentration in Biology is a planned sequence of courses designed to promote a basic grounding in biology. Topics include a range of fundamental biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution.

Advising Note: Freshman students should be aware that PHYS 101 and/or PHYS 102 are required for some of the courses in the major and minor concentrations in Biology.

Degree Requirements — B.A. & Sc. students

This program is offered as part of a Bachelor of Arts & Science (B.A. & Sc.) degree.

To graduate, students must satisfy both their program requirements and their degree requirements.

- The program requirements (i.e., the specific courses that make up this program) are listed under the Course Tab (above).
- The degree requirements—including the mandatory Foundation program, appropriate degree structure, and any additional components—are outlined on the Degree Requirements page.

Students are responsible for ensuring that this program fits within the overall structure of their degree and that all degree requirements are met. Consult the Degree Planning Guide on the SOUSA website for additional guidance.

Note: For information about Fall 2025 and Winter 2026 course offerings, please check back on May 8, 2025. Until then, the "Terms offered" field will appear blank for most courses while the class schedule is being finalized.

Required Courses (18 credits)

Students must take at least 36 new credits in this program.

Expand allContract all

Course	Title	Credits
BIOL 200	Molecular Biology.	3
BIOL 201	Cell Biology and Metabolism.	3
BIOL 205	Functional Biology of Plants and Animals.	3
BIOL 206	Methods in Biology.	3
BIOL 215	Introduction to Ecology and Evolution.	3
BIOL 216	Biology of Behaviour.	3

Complementary Courses (18 credits)

3-4 credits from CHEM block:

Expand allContract all

Course	Title	Credits
CHEM 204	Physical Chemistry/Biological Sciences 1.	3
CHEM 212	Introductory Organic Chemistry 1.[1]	4

[1] *Students who have already taken CHEM 212 or its equivalent as advance credits may choose to substitute CHEM 204, or CHEM 222, or a 300-500 levels complementary Biology course, to be approved by the Biology Advisor.

3-4 credits from:

Expand allContract all

Course	Title	Credits
BIOL 301	Cell and Molecular Laboratory.	4
BIOL 311	Advanced Methods in Organismal Biology.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 202	Basic Genetics.	3
BIOL 302	Fundamentals of Genetics and Genomics.	3

3 credits from:

Expand allContract all

Course	Title	Credits
BIOL 300	Molecular Biology of the Gene.	3
BIOL 303	Developmental Biology.	3
BIOL 304	Evolution.	3
BIOL 305	Animal Diversity.	3
BIOL 306	Neural Basis of Behaviour.	3
BIOL 307	Behavioural Ecology.	3
BIOL 308	Ecological Dynamics.	3
BIOL 313	Eukaryotic Cell Biology.	3

4-6 credits from Biology courses at the 300-500 levels.