BIOLOGY, LIBERAL PROGRAM - CORE SCIENCE COMPONENT (47 CREDITS)

Offered by: Biology (Faculty of Science)
Degree: Bachelor of Science
Program credit weight: 47

Program Description

The Liberal Program - Core Science Component Biology is a flexible program focusing on the fundamentals of biology. Topics include a range of biological concepts spanning molecules and cells to organisms and ecosystems, including development, behaviour and evolution. This program is well suited to students with varied interests who do not want to focus solely on biology in their studies.

Students may complete this program with a minimum of 45 credits or a maximum of 47 credits depending on their choice of complementary courses.

Degree Requirements — B.Sc.

This program is offered as part of a Bachelor of Science (B.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 (24 credits)

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
BIOL 302	Fundamentals of Genetics and Genomics.	3
COMP 204	Computer Programming for Life Sciences.	3

Complementary Courses (21-23 credits)

Core (6-8 credits)

3 or 4 credits selected from:

Expand allContract all

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

[1] If a student has already taken CHEM 212 Introductory Organic Chemistry 1. or its equivalent, the credits can be made up with CHEM 204 Physical Chemistry/Biological Sciences 1., CHEM 222 Introductory Organic Chemistry 2., or a 3- or 4-credit Biology complementary course to be approved by the Biology Adviser.

3 or 4 credits selected from:

Expand allContract all

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

Other (15 credits)

15 credits of Biology complementary courses at the 300-500 levels, including at least 3 credits at the 400-500 levels. Up to 6 credits may be from non-BIOL science courses, with Adviser permission. Up to 6 credits of independent research may be included.