The Department of Biology is home to faculty and researchers with research interests in ecology, environmental biology, physiology, microbiology, cellular biology and molecular biology. Scientific facilities include an aquatics facility, a field station in the Cypress Hills, the Environmental Quality Analysis Laboratory (EQAL), Institute of Environmental Change and Society (IECS) and the recently-established Institute for Microbial Systems and Society.

IECS provides world-class infrastructure and research expertise in environmental sciences via state-of-the-art microscopy, proteomics and genomics facilities. Additionally, the department frequently collaborates with researchers at the Royal Saskatchewan Museum, the Saskatchewan Disease Control Laboratory and several other scientific organizations in Southern Saskatchewan.

The Department of Biology offers high-quality undergraduate and graduate programs. The undergraduate programs have strong hands-on components as many courses include laboratories developed and overseen by four full-time laboratory instructors. Junior and senior students also benefit from small class sizes. We have an active honours program, a co-op program and many opportunities for students to participate in research projects. Accessible, modern research facilities put our PhD and MSc students at the forefront in their fields. Our graduate students benefit from working in a close-knit, supportive environment that encourages innovative science.
THE DEPARTMENT OF BIOLOGY OFFERS THE FOLLOWING ACADEMIC PROGRAMS:

- Diploma in General Science
- BSc Biology
- BSc Biology with a Concentration in Cellular and Molecular Biology
- BSc Biology with a Concentration in Ecology and Environmental Biology
- BSc Hons Biology
- BSc Hons Biology with a Concentration in Cellular and Molecular Biology
- BSc Hons Biology with a Concentration in Ecology and Environmental Biology
- BSc Combined Biology/Geography
- BSc Environmental Biology (Joint program with Saskatchewan Polytechnic and Lethbridge College)
- BSc Environmental Biology (Joint program with Lakeland College)
- BSc Hons Environmental Biology (Joint program with Saskatchewan Polytechnic and Lethbridge College)
- BSc Hons Environmental Biology (Joint program with Lakeland College)

COURSE HIGHLIGHT

**BIOL 402 - Evolution**
This course explores the evidence supporting evolution as a scientific theory, its role as the main unifying theory of biology, and how biologists use evolution to guide research. Topics covered include molecular evolution, phylogeny, the history of life, natural selection and adaptation, the evolution of life histories, speciation, and macroevolution.

**BIOL 410 - Microbial Genetics and Infection**
This course will examine bacterial and viral genetic systems to understand host-pathogen interactions, with a focus on: gene regulation, gene transfer, mutation, evolution of host-pathogen interactions, and epidemiology.

**BIOL 457 - Environmental Microbiology**
Course focuses on understanding the interactions of microorganisms with their environment. Topics include ecology, diversity, and biotechnological applications of microbial communities, including those from extreme and unusual environments. The use of molecular approaches to identify and characterize microbial communities will be emphasized.

RECOMMENDED FIRST YEAR COURSES

- Biology 100
- Biology 101
- Chemistry 104
- Chemistry 105
- Chemistry 140
- Computer Science 110
- English 100
- English 110
- Mathematics 102
- Mathematics 110
- Mathematics 111
- Statistics 100
- Statistics 200

*Always check that you meet course prerequisite requirements.

HIGH SCHOOL ADMISSION REQUIREMENTS FOR THE FACULTY OF SCIENCE

5 Grade 12 courses including:
- English A30
- English B30
- Pre-Calculus 30

and at least two of:
- Biology 30
- Calculus 30
- Chemistry 30
- Computer Science 30
- Physics 30

A High School Average of 70% across these five courses is required.

Note: Students who are missing a course, or who have an average between 65% and 69.9% are eligible for the Faculty of Science Qualifying Program.