

## **Biology Options**

The General Program and the Specialized Program have a common first year that consists of 6 credits each of Biology, Chemistry, Mathematics, and Physics, and 6 credits from the Social Sciences or Humanities.

### **Bachelor of Science (General Program), Academic Advisor - Dr. Léo G. Leduc**

The General Program is a 3-year program for students requiring a background in Science with a concentration in Biology. The Specialized Program is a 4-year program for students preparing for careers in Biology. Students must choose one of the following four options before commencing their second year:

#### **Biomedical Option, Academic Advisor - Dr. Léo G. Leduc**

The Biomedical Option provides courses that give students a strong background in the disciplines within Biology that are relevant to medicine. Graduates of this human biology-based option are well prepared for: careers in a biomedical field, graduate studies (M.Sc. and Ph.D.), teaching, human and veterinary medicine, dentistry, chiropractic, naturopathy, physiotherapy, etc.

This Option includes courses in human anatomy and physiology, cell biology, biochemistry, microbiology, genetics, histology and embryology. As well, students can choose elective courses from the Social Sciences or Humanities, and from other disciplines.

#### **Conservation and Restoration Option, Academic Advisor - Dr. Peter Ryser**

The Conservation and Restoration Option begins with a broad introduction to the living world at the organism, biotic community and ecosystem levels, and includes courses in plant, animal and soil ecology, wetland ecology, freshwater ecology, and bioclimatology. At a time when global biodiversity and ecosystem health are topics of importance, ecologists with knowledge and skills in conservation and restoration are in demand. Graduates are prepared for graduate school, teaching, government services, environmental consulting, non-governmental conservation agencies and mining companies. The international reputation of Sudbury as a centre for aquatic and terrestrial ecosystem restoration affords students many opportunities for field investigations.

#### **Terrestrial and Aquatic Ecology Option, Academic Advisor - Dr. Jackie D. Litzgus**

The Terrestrial and Aquatic Ecology Option provides courses that give students a strong background in field ecology relevant to ecological research, conservation and wildlife management. Graduates of this option are well prepared for employment in the various fields of ecology including graduate studies, teaching, wildlife, fish, habitat, park management and conservation.

#### **Zoology Option, Academic Advisor - Dr. Albrecht I. Schulte-Hostedde**

The Zoology Option provides courses that are designed to give students a rigorous background in the fundamentals of zoology focusing on organismal biology. Graduates of the Zoology Option will be qualified for a variety of fields including research (graduate studies), education and government services.