

Careers in the Field of Conservation Biology

The Society for Conservation Biology (SCB) defines conservation biology as a mission - oriented science that focuses on how to protect and restore biodiversity, or the diversity of life on earth.



Conservation Biologists should have a basic foundation in any relevant field of the biological sciences, e.g. ecology, evolution, biogeography, biodiversity, microbiology, and environmental management.

Trent University offers a unique experience with a core group of researchers working in the conservation field including two Canada Research Chairs: one in Terrestrial Ecology and the other in DNA Profiling and Functional Genomics.

The Research Section of the Ontario Ministry of Natural Resources (OMNR) is housed in the DNA, Life and Health Sciences Building on the Peterborough campus that allows collaboration with Trent faculty and the exposure of students to real-world conservation



and natural resource management applications.



Specialization in Conservation Biology

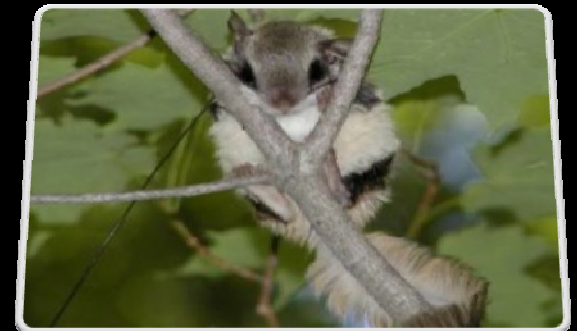
Students at Trent University can earn a Specialization in Conservation Biology by working with agencies such as:

- Ontario Ministry of Natural Resources (OMNR)
- Metro Toronto Zoo
- Conservation Authorities
- Parks Canada and CWS
- Wildlife Conservation Society

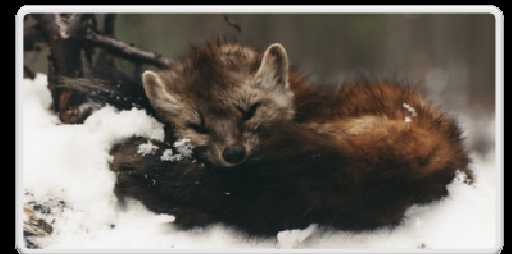
Life at Every Level

BIOLOGY DEPARTMENT

Life and Health Sciences Building
Trent University
2140 East Bank Drive
Peterborough, Ontario, K9J7B8
Phone: 705-748-1011 x 7424
trentu.ca/biology



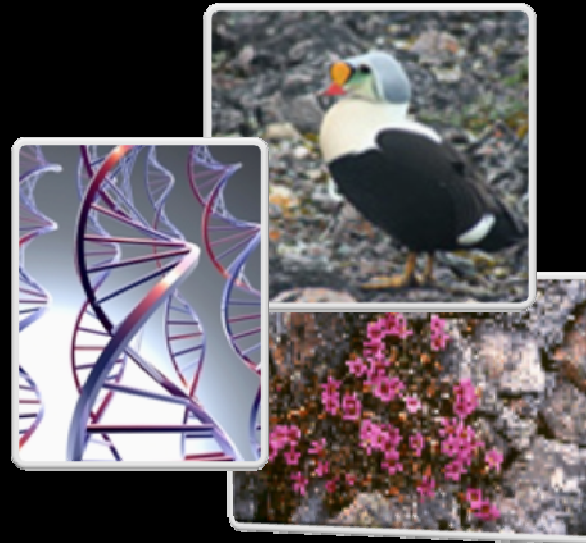
Conservation Biology at Trent University



TRENT UNIVERSITY 

"The one process now going on that will take millions of years to correct is the loss of genetic and species diversity by the destruction of natural habitats. This is the folly our descendants are least likely to forgive us."

- E.O. Wilson



Conservation in Practice

Students at Trent earn their Specialization in Conservation Biology through a 4th year **Internship Placement** in universities, provincial/federal government agencies, non-governmental organizations (NGO) or industry.

Conservation Courses and Research at Trent University

Courses offered in the Conservation Biology Specialization include:

Species-at-Risk Biology & Policy

Plants of Ontario or Biology of Invasions

Mammalogy, Ornithology or Herpetology

Biology of Marine Mammals

Conservation Biology

Evolutionary Ecology

Population Genetics/Molecular Ecology

Laboratory Course in Conservation Genetics

Global Change of Aquatic Systems

Ontario Universities Program in Field Biology (OUPFB) Courses

Conservation research projects supervised by Trent Biology faculty include:

Ecology, genetics and genome sequencing of Canadian species-at-risk such as boreal caribou, polar bears, wolves, plants and whales and managed harvested species such as moose, Canada lynx and other furbearing species.

Invasive plant species and hybridization of both plant and animal species such as cattails (*Typha*) and flying squirrels.

Surveying wildlife disease such as Aleutian disease in mink; amphibian ranavirus and chytrid fungus; giardia; and rabies in raccoons and other species.

Studying habitat fragmentation and stress physiology in avian species.

Development of elephant and mammoth specific DNA markers for Wildlife Forensic Science cases associated with the ivory trade.