



UNIVERSITY
OF ALBERTA

Department of Biological Sciences

Experience Biology

Redefining the Classroom

Ranked **second in Canada**, our undergraduate biology programs offer an engaging, hands-on learning environment that goes beyond the lecture hall. We emphasize **extensive laboratory training** and **experiential learning opportunities**, giving students practical experience from the start of their studies. From first-year labs to undergraduate research opportunities, this approach develops critical thinking, data analysis, and technical skills highly valued by employers and professional programs.

Learning extends beyond campus through interactive online courses such as **Dino 101** (Dinosaur Paleobiology) and **Bugs 101** (Insect-Human Interactions), which can also be incorporated into a flexible on-campus degree program. Learn more at uab.ca/mooc.

Museums & Collections

Our world-class museums and collections serve as unique **hands-on learning resources**, featuring specimens ranging from parasites and marine invertebrates to dinosaur fossils. The **E.H. Strickland Entomological Museum** alone houses over one million insect specimens. Take a virtual tour of these spaces at uab.ca/scitours.



More Information

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uab.ca/biosci



Undergraduate Programs

BIOLOGICAL SCIENCES – BSc Major/Minor | BSc Honors

These flexible programs allow students to select from over 130 undergraduate courses covering a wide range of topics, providing a comprehensive education in the biological sciences.

ECOLOGY, EVOLUTION & ENVIRONMENTAL BIOLOGY – BSc Major | BSc Honors

Explore how organisms interact with their environment, the diversity of life past and present, and the mechanisms that drive evolutionary change.

MOLECULAR, CELLULAR & DEVELOPMENTAL BIOLOGY – BSc Major | BSc Honors

Examine the molecular structures and cellular processes essential to the function, reproduction, and development of all living organisms.

IMMUNOLOGY & INFECTION – BSc Major | BSc Honors

Investigate infectious diseases from a dual perspective, examining both pathogens and the host immune system. Jointly offered with the Faculty of Medicine and Dentistry.

INTEGRATIVE PHYSIOLOGY – BSc Major | BSc Honors

Study how physiological processes of living organisms are regulated and integrated across biological systems, from cells and tissues to organs and whole organisms.

PALEONTOLOGY – BSc Major | BSc Honors

Investigate the evolutionary history of life through the fossil record, studying patterns and processes of evolution from billions of years ago to the present. Jointly offered with the Department of Earth and Atmospheric Sciences.

Possible Careers

Career opportunities in biology are numerous, varied, and continually expanding. Graduates can pursue diverse roles such as:

- Biomedical Researcher
- Microbiologist
- Conservation Biologist
- Environmental Consultant
- Forensic Laboratory Analyst
- Wildlife Biologist / Ecologist / Naturalist
- Environmental Law Enforcement / Park Ranger
- Healthcare Professional / Practitioner
- Laboratory Technologist / Technician
- Geneticist
- Pathogen Researcher / Immunologist
- Science Educator / Writer / Communicator
- Scientific, Pharmaceutical & Biomedical Sales
- Museum or Science Centre Interpreter



For admission requirements: ualberta.ca/admissions

For admission related questions: science.recruiting@ualberta.ca

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