

# DEPARTMENT OF BIOLOGICAL SCIENCES

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Biological Sciences is the study of living organisms, environments and the various relationships therein. It examines the structure, function, growth and development, origin, evolution, distribution, and classification of all living things. Biological Sciences at MacEwan University encompasses biochemistry, botany, genetics, microbiology, and zoology, allowing students to study a diverse range of organisms all the way from their molecular level to the ecosystems that these organisms inhabit. Courses in the department support two streams of study: Molecular/Cellular Biology and Ecology/Diversity Biology. Students will also gain technical expertise, which can be supplemented with research-intensive individual study courses or with field-based courses.

## Chair

**Kevin Friesen, PhD (Alberta)**  
*Physiology and Cell Biology*

## Faculty

**Agata Becalaska, PhD (Princeton)**  
*Molecular Biology*

**Nina Bernstein, PhD (Alberta)**  
*Biochemistry*

**Victoria Bowles, M.Sc. (Alberta)**  
*Biological Sciences*

**Karen Christensen-Dalsgaard, PhD (Manchester)**  
*Plant Physiology*

**Mrinal Das, PhD (Alberta)**  
*Zoology*

**Monica Davis, PhD (Alberta)**  
*Molecular Biology and Genetics*

**Kathy Davies, B.Sc. (Alberta)**  
*Biological Sciences*

**Shannon Digweed, PhD (Lethbridge)**  
*Evolution and Behaviour*

**Christina Elliott, M.Sc. (Alberta)**  
*Environmental Biology and Ecology*

**Leah Flaherty, PhD (New Brunswick)**  
*Forestry and Environmental Management*

**Erin Fleming, M.Sc. (British Columbia, Okanagan)**  
*Environmental Sciences*

**Jessica Haines, PhD (Alberta)**  
*Ecology*

**Kimberley Harcombe, PhD (Alberta)**  
*Microbiology and Biotechnology*

**Melissa Hills, PhD (Australian National)**  
*Biochemistry and Molecular Biology*

**Kevin Judge, PhD (Toronto)**

## Zoology

**David Locky, PhD (Alberta)**  
*Environmental Biology and Ecology*

**David McFadyen, PhD (Alberta)**  
*Molecular Biology and Genetics*

**Randi Mewhort, M.Sc. (Alberta)**  
*Environmental Biology and Ecology*

**Lisa Prichard, PhD (Washington)**  
*Pharmacology*

**Ross Shaw, PhD (British Columbia)**  
*Zoology*

**Treena Swanston, PhD (Saskatchewan)**  
*Anthropology*

**Gord Youzwysyn, M.Sc. (Alberta)**  
*Zoology*