



**UNIVERSITY  
OF ALBERTA**

# Department of Cell Biology

## Unique Offerings

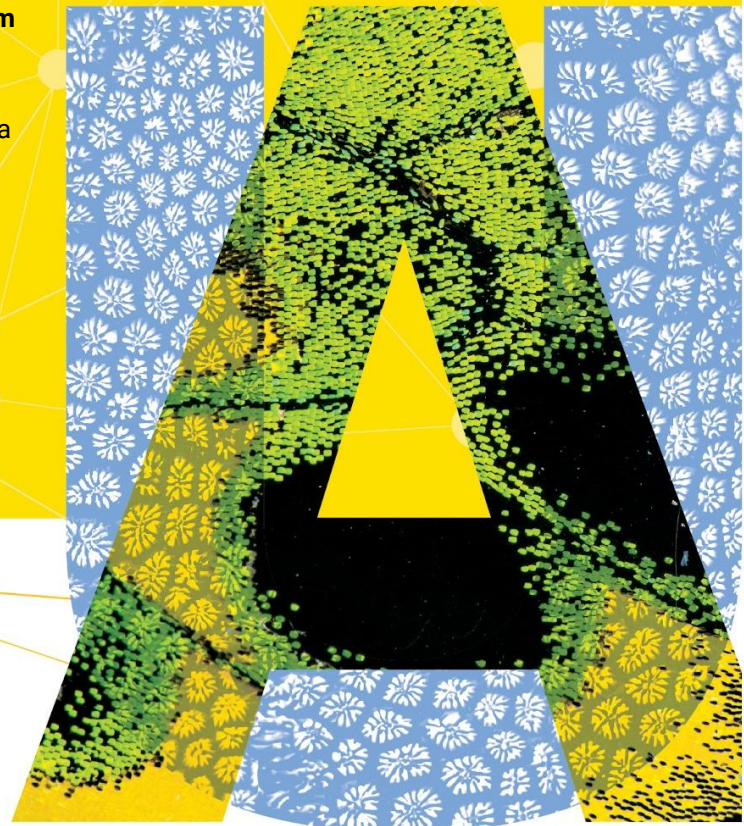
### **Certificate in Biomedical Research**

Students who pursue this certificate will be engaged in world-class biomedical research and will acquire a broad range of skills through substantive laboratory courses and independent research project experiences. As an optional embedded certificate, courses taken also count towards a student's degree.

### **Redefining the Classroom**

The Department of Cell Biology is committed to giving students a broad and practical knowledge base that will help them become independent and productive future researchers. 3rd and 4th year courses allow for supervised individual research projects.

The **Undergraduate Summer Students' Research Program** in the Faculty of Medicine & Dentistry provides undergraduate and medical students the opportunity to participate in summer research under the supervision of a faculty member.



**More Information**

[ualberta.ca/cellbiology](http://ualberta.ca/cellbiology)

# Undergraduate Programs

While the Department of Cell Biology is housed within the Faculty of Medicine & Dentistry, the undergraduate degrees are offered through the Faculty of Science.

## CELL BIOLOGY - BSc Major/Minor | BSc Honors

Cell Biology takes a coordinated approach to the study of cells – the basic units of life. It integrates all the other life sciences in studying cells from the point of view of how they function. Today, cell biology combines aspects from many disciplines such as molecular biology, biochemistry and morphology, molding them into a unique approach towards the examination of cell function. Courses in protein function, gene expression, and developmental biology will provide you with a comprehensive cell biology background and prepare you for entry into the workforce, graduate school, or a professional program such as medicine. Specialized topics include:

- Cancer research
- Lipid metabolism
- Neurogenesis
- Viral pathogenesis

The goal of modern cell biology is to establish a molecular understanding of cells exploiting techniques drawn from molecular biology, genetics, biochemistry, microscopy, and biophysics.

## Possible Careers

- Biological Technician
- Biologist
- Biotechnologist
- Cancer Researcher
- Cytologist
- Forensic Laboratory Analyst
- Geneticist
- Hydrologist
- Laboratory Technician
- Medical Librarian
- Product Manager-Stem Cell Biology
- Professor/Teacher
- Radiation Protection Technologist
- Research Scientist



For admission requirements: [ualberta.ca/admissions](http://ualberta.ca/admissions)

For admission related questions: [science.recruiting@ualberta.ca](mailto:science.recruiting@ualberta.ca)

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