Faculty of Science

BIOCHEMISTRY

Bachelor of Science (BSc)

Biochemists are curious about how and why biological processes happen, and they research answers right down to the molecular level. During the course of your studies, much of your learning will occur while actively working on problems in class, during tutorials, and in the laboratory. This degree will provide you with an understanding of the theory and practical use of current techniques used in biochemistry research. You’ll also gain an understanding of newly-evolving fields such as bioinformatics and functional proteomics.

Did You Know?

Our Biochemistry and Molecular Biology department has four distinct streams: cell structure and signalling, genomics, proteomics and bioinformatics, molecular and development genetics, and molecular biology and disease.

Awards

DENISE LINDSAY GERWING MEMORIAL ENTRANCE BURSARIES - UP TO $4,750

CHANCELLOR’S CLUB SCHOLARSHIP - UP TO $10,000 (RENEWABLE)

Job Titles

BIOCHEMIST

RESEARCH SCIENTIST

TECHNICAL SALES

Student Clubs

STUDENTS OF THE ARTS AND SCIENCE HONOURS ACADEMY

WOMEN IN SCIENCE AND ENGINEERING

Aaron Goodarzi

Dr. Goodarzi is a globally recognized researcher in the field of DNA damage repair. Dr. Goodarzi has published 38 scientific articles and has been cited by other researchers nearly 3,000 times. This has earned recognition for both himself and the Robson DNA Science Centre, which is a $10 million facility that opened in 2014 with Dr. Goodarzi as a founding member. He was also appointed as the Canada Research Chair for Genome Damage and Instability Disease.

“Now in my third year, I’m very glad I chose to study biochemistry (honours). A prominent memory from first year was being invited to the biochemistry info night hosted by the faculty members. It was a wonderful opportunity to chat with some professors in the field and to make a few friends as well.

Amy Z., biochemistry (honours) student

Sample First-Year Courses

FALL

Energy Flow in Biological Systems (BIOL 241)

Chemistry (CHEM 201, 203 or 211)

Calculus (MATH 249, 265 or 275)

Mechanics (PHYS 211 or 221)

Non-science option

WINTER

DNA, Inheritance and Evolution (BIOL 243)

Chemistry (CHEM 201, 203 or 211)

Linear Methods I (MATH 211) or Honours Linear Algebra I (MATH 213) or Calculus (MATH 267 or 277)

Introductory Electromagnetism, and Thermal Physics (PHYS 223)

Non-science option

View Program Requirements

1. Visit ucalgary.ca/future-students/undergraduate/explore-programs
2. Select your program
3. Select your type of admission (high school or transfer)
4. Choose the location of your high school