Faculty of Science

CELLULAR, MOLECULAR AND MICROBIAL BIOLOGY

Bachelor of Science (BSc)

Cellular, Molecular and Microbial Biology is the study of how single-cell microorganisms and single-animal cells function at a molecular level. During the course of your studies, learning will occur while actively working on problems in class, during tutorials and in the laboratory. You’ll get a broad perspective on diverse topics including the function of molecules in bacteria and animal cells, the relationships between cell structure and cell function, and the interactions of microbes with each other as well as with plant and animal cells.

Did You Know?

We offer study abroad programs in more than 40 countries, and also provide funding opportunities to help cover the costs!

Dr. James Strong
BSc’90, MD’97, PhD’96

Dr. Strong is an Alberta-born, Calgary-trained pathogen researcher. He’s also one of the scientists who helped develop the Ebola vaccine at the National Microbiology Laboratory in Winnipeg that was trialed in affected regions in Africa.

Awards

FAIRFAX FINANCIAL HOLDINGS LIMITED ENTRANCE BURSARY - UP TO $5,000 (RENEWABLE)
CHANCELLOR’S CLUB SCHOLARSHIP - UP TO $10,000 (RENEWABLE)

Job Titles

MEDICAL LABORATORY ASSISTANT
MOLECULAR BIOLOGY RESEARCHER
RESEARCH TECHNICIAN

Student Clubs

STUDENTS OF THE ARTS AND SCIENCE HONOURS ACADEMY
WOMEN IN SCIENCE AND ENGINEERING

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

Sample First-Year Courses

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<tr>
<th>FALL</th>
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<tr>
<td>Energy Flow in Biological Systems (BIOL 241)</td>
<td>DNA, Inheritance and Evolution (BIOL 243)</td>
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<td>Chemistry (CHEM 201, 203 or 211)</td>
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<tr>
<td>Calculus (MATH 249, 265 or 275)</td>
<td>Linear Methods I (MATH 211) or Honours Linear Algebra I (MATH 213) or Calculus (MATH 267 or 277)</td>
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<td>Choose one of: Computer Science (CPSC 217, 231 or 235) or Principles of Geoscience (GLGY 201) or Mechanics (PHYS 211 or 221)</td>
<td>Continuation of introductory course in: Computer Science (CPSC 219, 233 or 235) or Geology (GLGY 202) or Physics (PHYS 223)</td>
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<tr>
<td>Non-science option</td>
<td>Non-science option</td>
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