Faculty of Kinesiology

BIOMECHANICS

Bachelor of Science (BSc)

Biomechanics examines the forces acting upon and within a biological structure, as well as the effects produced by these forces. During the course of your studies, much of your learning will occur while working on problems in class and during labs. You’ll learn how to apply mechanical theories and concepts to living systems with special emphasis on the human body and its movement, structure and function.

Did You Know?
The Faculty of Kinesiology includes the world-renowned Human Performance Lab (HPL). The HPL is one of the largest and best equipped research centres for musculoskeletal research as it relates to movement and exercise.

Hendrick Enders
PhD'16
Enders came to Calgary to become part of the world-renowned Human Performance Lab (HPL) in the Faculty of Kinesiology. He is now graduating with his doctorate in biomechanics and is joining Adidas in Germany as a research scientist where he’ll use his research about understanding human movement.

Awards
DARRYL AND PEGGY PROUDFOOT ENTRANCE BURSARY IN KINESIOLOGY - UP TO $2,500
CHANCELLOR'S CLUB SCHOLARSHIP - UP TO $10,000 (RENEWABLE)

Job Titles
BIOMECHANIST
ERGONOMIST
PROTOTYPING TECHNICIAN

Student Clubs
KINESIOLOGY STUDENTS' SOCIETY
EXERCISE IS MEDICINE ON CAMPUS

“"Everyone from the administrative staff to the members of the faculty have always treated me with respect. The university has done a tremendous job putting together a dynamic group of very forward-thinking, hardworking individuals who are not only amazingly talented in their respective fields, but also some of the most polite, engaging and enthusiastic people I have ever met.
Roger J., Bkin'17

Sample First-Year Courses

**FALL**

- Human Anatomy and Physiology I (KNES 259)
- Activity: Essence and Experience (KNES 201) or Activity: Health, Fitness and Performance (KNES 203)
- Calculus for Engineers and Scientists (Math 275)
- Linear Methods I (Math 211)
- Introduction to Research in Kinesiology (KNES 213), Introduction to Socio-Cultural Aspects of Sport (KNES 244), Introduction to Motor Control and Learning (KNES 251) or Mechanics (PHYS 211)

**WINTER**

- Human Anatomy and Physiology II (KNES 260)
- Activity: Essence and Experience (KNES 201) or Activity: Health, Fitness and Performance (KNES 203)
- Behaviour of Liquids, Gases and Solids (ENGG 201) or Engineering Statistics (ENGG 202)
- Multivariable Calculus for Engineers and Scientists (MATH 277)
- Quantitative Biomechanics (KNES 263)

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