Faculty of Science

GEOPHYSICS

Bachelor of Science (BSc)

Geophysics is the application of the laws and techniques of physics to uncover knowledge about the earth’s dynamic processes and subsurface structure. 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 a foundation in geology, geophysics, physics, mathematics, chemistry, and geophysical fundamentals covering geophysical exploration, global studies, rock properties, and data acquisition methods.

Did You Know?

Through the Science Mentorship Program, you’ll have the opportunity to be paired with an upper year student to attend program events, discuss academics, and participate in social activities.

Awards

JOYCE MARGARET WRIGHT SCHOLARSHIPS - UP TO $5,500
CHANCELLOR’S CLUB SCHOLARSHIP - UP TO $10,000 (RENEWABLE)

Job Titles

GEOPHYSICAL DATA PROCESSOR
PETROLEUM GEOPHYSICS CONSULTANT
RESEARCH SCIENTIST

Student Clubs

GEOPHYSICS UNDERGRADUATE STUDENTS’ SOCIETY
WOMEN IN SCIENCE AND ENGINEERING

Rick Warters
BSc’82
Past president and founder of the University of Calgary Geoscience Alumni Committee, Warters is currently vice-president, North American subsurface development at Repsol. Previously, he held senior leadership roles at ConocoPhillips and Talisman Energy.

I came to UCalgary because it was close to home. Little did I know what a great experience it would be! The geoscience department is tight knit, with opportunities to contribute outside of class, including different academic clubs, talk series, social events and even a cèilidh (a traditional Gaelic social gathering with music and dancing) taught by one of our own professors!

Zoe V., geoscience student

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

FALL

- Principles of Geoscience (GLGY 201)
- General Chemistry: Structure and Bonding (CHEM 201) or Foundations of Chemistry: Structure and Bonding (CHEM 211)
- Calculus (MATH 249, 265 or 275)
- Mechanics (PHYS 211 or 221)
- Non-science option

WINTER

- Applications of Geoscience (GLGY 202)
- General Chemistry: Change and Equilibrium (CHEM 203) or Foundations of Chemistry: Change and Equilibrium (CHEM 213)
- Calculus (MATH 267 or 277)
- Introductory Electromagnetism, and Thermal Physics (PHYS 223)
- Non-science option