Schulich School of Engineering

GEOMATICS ENGINEERING

Bachelor of Science in Engineering - BSc (Eng)

Geomatics engineering is an information technology discipline that deals with the acquisition, modeling, analysis and management of spatial data. Geomatics is one of the fastest-growing information sciences, which means the techniques and skills you’ll gain will be in high demand within a wide range of real-world work environments. During the course of your studies, much of your learning will occur in class, during tutorials and through working on advanced-level projects.

Did You Know?

As a geomatics engineering student, you can complete a concentration in cadastral surveying. Specializations in biomedical engineering or energy and the environment are also available.

Elizabeth Cannon
BSc (Eng) ’84, MSc (Eng) ’87, PhD ’91
Elizabeth Cannon is the eighth president and vice-chancellor of the University of Calgary, and the former dean of the Schulich School of Engineering. She has received numerous awards for her work as a professional engineer, and her research has been on the forefront of Global Positioning Systems (GPS) for the past three decades.

In the summer between third and fourth year, you go to a 10-day long survey camp out in Kananaskis. It’s a lot of work, but you get a lot of practical experience out of it. You’re learning a lot about the industry and you also get to bond with your year.

Marnie D., Geomatics Engineering 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

<table>
<thead>
<tr>
<th>FALL</th>
<th>WINTER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Calculus for Engineers and Scientists (MATH 275)</td>
<td>Multivariable Calculus for Engineers and Scientists (MATH 277)</td>
</tr>
<tr>
<td>Engineering Design and Communication (ENGG 200)</td>
<td>Fundamentals of Electrical Circuits and Machines (ENGG 225)</td>
</tr>
<tr>
<td>Computing for Engineers (ENGG 233)</td>
<td>Engineering Statics (ENGG 202)</td>
</tr>
<tr>
<td>Linear Methods I (MATH 211)</td>
<td>Electricity and Magnetism for engineers (PHYS 259)</td>
</tr>
<tr>
<td>General Chemistry for Engineers (CHEM 209) or Behaviour of Liquids, Gases and Solids (ENGG 201)</td>
<td>General Chemistry for Engineers (CHEM 209) or Behaviour of Liquids, Gases and Solids (ENGG 201)</td>
</tr>
</tbody>
</table>

Complementary studies option (optional)

This program features a common first year, which will introduce you to a variety of engineering disciplines. You’ll apply for admission to a specific program at the end of your first year.