Schulich School of Engineering

SOFTWARE ENGINEERING

Bachelor of Science in Engineering - BSc (Eng)

Software engineers use their specialized knowledge to develop, install, validate, and maintain software systems. As a software engineering student, you will gain theoretical foundations and plenty of design and research experience so you can achieve success in your field. During the course of your studies, much of your learning will occur in class, during tutorials and through designing a complete process for a specific product.

Did You Know?

As a software engineering student, you can complete a minor in entrepreneurship and enterprise development or management and society. A specialization is also available in biomedical engineering.

Garrett C.
BSc (Eng) ’01, Msc (Eng) ’06
Garrett is the co-founder and board chairman of Uber, an on-demand car service via a mobile app. He is also co-founder of StumbleUpon, a web-discovery platform.

Awards

SCHULICH SCHOOL OF ENGINEERING COMMUNITY SERVICE OR ACADEMIC EXCELLENCE SCHOLARSHIPS - UP TO $24,800 (RENEWABLE)

PRESIDENT’S ADMISSION SCHOLARSHIPS - $5,000

Job Titles

AUTOMATION AND CONTROLS DESIGN ENGINEER

SOFTWARE ENGINEER

INDUSTRY CONSULTANT

Student Clubs

ELECTRICAL, COMPUTER AND SOFTWARE ENGINEERING STUDENTS’ SOCIETY

SCHULICH UAV

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