Schulich School of Engineering

MECHANICAL ENGINEERING

Bachelor of Science in Engineering - BSc (Eng)

Mechanical engineers research, design, test, develop and construct various mechanical devices. The work of mechanical engineers surrounds us in our everyday lives, which means the techniques and skills you’ll gain will be directly applicable to a wide range of professional environments. During the course of your studies, much of your learning will occur in class, during tutorials and through designing a complete industrial process for a specific product.

Did You Know?

As a mechanical and manufacturing engineering student, you can complete a minor in manufacturing, entrepreneurship and enterprise development, management and society, mechatronics engineering or petroleum engineering. Specializations are also available in biomedical engineering and

Laura L.
BSc (Eng) ’99

Laura is at the helm of the “ROBO” call sign, serving as robotics officer in mission control at NASA’s Houston headquarters. She is the first Canadian woman to hold the position and only the third woman ever in the position.

Awards

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

PRESIDENT’S ADMISSION SCHOLARSHIPS - $5,000

Job Titles

MECHANICAL ENGINEER
REFRACTORY ENGINEER
INDUSTRY CONSULTANT

Student Clubs

MECHANICAL ENGINEERING STUDENTS’ SOCIETY
SCHULICH COMMUNITY ROBOTICS PROGRAM

The highlight was my manufacturing lab in third year. You get to manufacture a dice, a screw and a bolt. You get to learn how the drawings relate to real life. You get to do a little bit of process engineering (which is like chemical), a little bit of electrical and a little bit of civil - all in one department.

Julie B., Mechanical 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

FALL

Calculus for Engineers and Scientists (MATH 275)
Engineering Design and Communication (ENGG 200)
Computing for Engineers (ENGG 233)
Linear Methods I (MATH 211)
General Chemistry for Engineers (CHEM 209) or Behaviour of Liquids, Gases and Solids (ENGG 201)

WINTER

Multivariable Calculus for Engineers and Scientists (MATH 277)
Fundamentals of Electrical Circuits and Machines (ENGG 225)
Engineering Statics (ENGG 202)
Electricity and Magnetism for engineers (PHYS 259)
General Chemistry for Engineers (CHEM 209) or Behaviour of Liquids, Gases and Solids (ENGG 201)
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.