# Bachelor of Engineering – Mechanical Engineering

## Meet our students

Our students are given hands-on experience with advanced industry-standard technology throughout their studies and are ready to apply their skills to the workplace from day one. During their studies, they have worked with 3D printers, robotics, rapid prototyping, integrated energy systems (including solar, wind, and geothermal energy), HVAC systems, water jet technology, advanced mechatronics system equipment and more. As part of their studies, students choose to specialize in either energy or mechatronics for Year 3 and 4 of the program.

Learn more about the classes these students take by visiting the program webpage.

## Core competencies and skills

- Creating sustainable solutions using engineering concepts, methods, and techniques.
- Performing as an effective team member and leader in collaborative, multidisciplinary settings.
- Communicating technical concepts and issues effectively with both technical and non-technical audiences.
- Incorporating business practices, including project management tools and techniques, into practices of engineering.
- Using the techniques, skills, and tools necessary for mechanical engineering practice with an understanding of the associated limitations.

## Work term availability

- Summer (May – August)
- Optional co-op work term (up to 16 months), taken at the end of Year 3 (May).

## Work term capabilities

- Creating sustainable engineering solutions that are based on feasibility, technology, environmental impact, and economic assessments.
- Validating conclusions through investigations of complex engineering problems that include relevant experimentation, data collection, analysis, interpretation, and synthesis.
- Designing systems, components, or processes that meet regulatory and industry standards, and consider external impacts.
- Analyzing the impact of engineering solutions in a global, economic, societal, and environmental context.
- Demonstrating ethical conduct, accountability, and equity consistent with the requirements of the profession.
- Analyzing energy systems, including completion of energy and mass balance for process equipment and preliminary equipment sizing.

## Employer resources

- Employer webpage
- Program information
- Program course schedule

## Post a job

**To post a job, log in to our online platform Sheridan Works.**

**Don't have an account? Create one today using our Employer Registration Guide.**