Division of Science, Technology, Engineering and Mathematics

Associate in Science in Mechanical Engineering

This program provides a strong foundation in mathematics and engineering sciences, and an introduction to industry-standard tools and software. Upon program completion, students can transfer to a four-year degree program in Mechanical Engineering or apply for entry-level positions such as a mechanical designer or as a manufacturing technician. Students graduating from the Associate in Science in Mechanical Engineering program will achieve proficiency in the college-wide learning outcomes.

Successful graduates of the program will be able to:

1. Apply principles of mathematics, science, and engineering to analyze common engineering components and systems;
2. Formulate and solve a variety of engineering problems such as those in engineering mechanics, mechanics of materials, and product design;
3. Collect technical information, data and specifications from technical resources, codes and standards;
4. Design and conduct engineering experiments, collect engineering data, analyze and interpret the data using scientific equipment, and software;
5. Use the engineering design approach: research, brainstorm, propose, design, and test solutions, to meet the specified requirements;
6. Communicate problem-solving approaches and technical information effectively to a broad audience using models, simulations, oral presentations and written reports.