Division of Science, Technology, Engineering and Mathematics

Associate in Science in Engineering

The Associate in Science in Engineering degree provides students with a strong foundation in engineering sciences and mathematics, as well as an exposure to the broad field of engineering and introduction to 3D modeling and simulation tools. Upon program completion, students can transfer to a four-year engineering degree program in fields such as the civil, mechanical, industrial or plastics engineering, or apply for entry-level positions in the engineering field. Students graduating from the Associate in Science in Engineering program will achieve proficiency in the college-wide learning outcomes.

Successful graduates 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 and materials engineering;
3. Use appropriate industry-standard modeling and simulation tools for analysis, practice, design and manufacturing of engineering systems;
4. Design and conduct engineering experiments, collect engineering data, and 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.