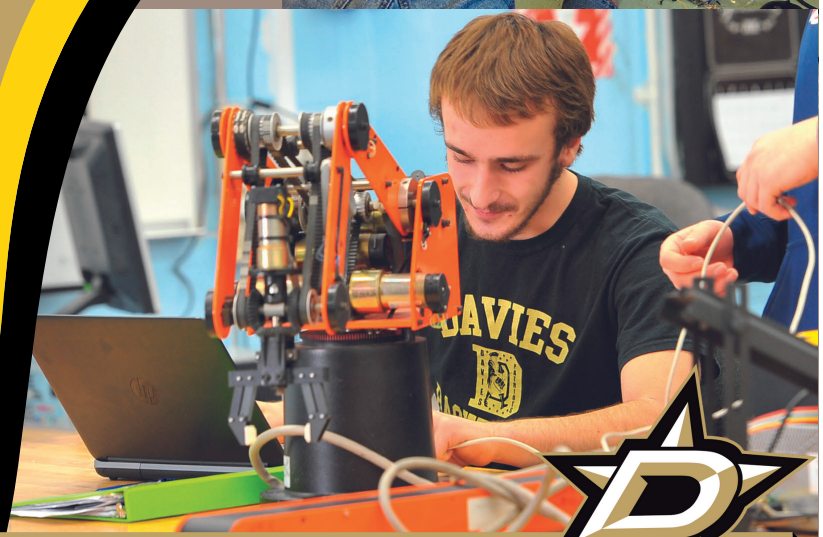
LEARN MORE

ABOUT CAREER AND TECHNICAL EDUCATION



INTERESTED?

- Attend our open house
- Register and take the entrance exam
- Complete your 8th-grade year in good standing

DAVIESTECH.ORG/ADMISSIONS

Pre-Engineering Technology

Pre-Engineering Technology is a four-year program that affords students the opportunity to enter the workforce or continue their education at a two or four-year technical school or college. Students are prepared for entry-level employment in diverse fields associated with electronics, robotics, automation, software development, and other areas of technology. Coursework is separated into three content areas: •Electronics Engineering Technology •Computer & Software Engineering • Mechanical & Robotics Engineering. Each pathway exposes students to Engineering Design as they study the design process, engineering documentation, SOLIDWORKS 3D computer-aided design, and the fundamental concepts of engineering.

Primary Credentials

- NOCTI Pre-Engineering

Projected Job Outlook

Employment of mechanical engineers is projected to grow 2 percent from 2021 to 2031, slower than the average for all occupations. Despite limited employment growth, about 17,900 openings for mechanical engineers are projected each year, on average, over the decade.

Salary Information

The median annual wage for mechanical engineers was $95,300 in May 2021.

Employability Skills & Knowledge

Problem Solving, Professionalism, Collaboration, Critical Thinking, Communication, Creativity, Flexibility, Initiative, Apply knowledge of mathematics, science, and engineering, design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social-political, ethical, health and safety, manufacturability, and sustainability, function on multidisciplinary teams, identify, formulate, and solve engineering problems, understand professional and ethical responsibility, communicate effectively, understand the impact of engineering solutions in a global, economic, environmental, and societal context, recognize the need for, and an ability to engage in lifelong learning, use the techniques, skills, and modern engineering tools necessary for engineering practice.