Powering up!

Do you enjoy working with your hands, thinking about and solving problems, making machines work, and keeping systems running? SCTD can power up your career with an associate degree in Mechanical Engineering Technology and/or a bachelor’s degree in Advanced Manufacturing Technology. Completing your degree can be done around your schedule; day and evening classes are offered in response to the needs of enrolled students.

“I chose SCTD because when I looked into the Mechanical Engineering program, I liked what I saw as far as class flexibility, class sizes and hands-on learning. It is a very needed field. very hands-on with a lot of opportunity. Fluid Power 2 is a very informative class. I like that we read about something and then get up and do it.”
TIM COMPTON, Mechanical Engineering Technology

In their Fluid Power 2 class, evening students Tim Compton, foreground, and Joe Summers practice connecting hydraulic lines to a Directional Control Valve. The Amatrol trainer they are using replicates equipment they will use in the field.

Advanced Manufacturing Technology students Joe Goatley (far right) and Max Fisher employ ladder logic to wire an electrical control panel to a hydraulic (fluid) power trainer. Their instructor, Greg Zohradnik, provides feedback. Both students earned their associate degrees in Mechanical Engineering Technology from SCTD.

Good things come in small packages

The Pegasus, Amatrol’s smallest robot, has an open arm design that supports hands-on knowledge application and skill development. Although small in size, the Pegasus is a giant when it comes to teaching and learning capabilities. In SCTD’s Robot Applications class, the Pegasus takes Mechanical Engineering Technology students from application development and programming to multitasking and flexible manufacturing cell operation.

“Small classes are a plus. . . the skills we learn here are exactly the skills we need on the job.”
DONALD EDMONSON, Mechanical Engineering Technology

“I love this class. Just being able to sit down and program robots is amazing.”
TYLER SHOULDER, Mechanical Engineering Technology

“Small classes are a plus. . . the skills we learn here are exactly the skills we need on the job.”
DONALD EDMONSON, Mechanical Engineering Technology

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DONALD EDMONSON, Mechanical Engineering Technology

“I chose SCTD for the small class sizes, instructors’ experience in the field, and the hands-on projects.”
DAVID PAYNE, Mechanical Engineering Technology

Enrique Navarro tests inputs and outputs on an operator station.

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“This class is fun and challenges me. I like that we can work with the robots and learn as we are doing it.”
ENRIQUE R. NAVARRO, Mechanical Engineering Technology

Building a bridge to a new career

Students majoring in Computer Aided Design Drafting (CADD) take several courses in which they study truss design. As a part of one of the courses, Strength of Materials, they actually choose a truss from among several designs in their textbook and make a graph of the truss. After making a graph, the students construct the truss and the instructor, Charles Warren, tests it for strength. Students use what they learn with this project as they complete their CADD programs, whether they design buildings or machine parts.