



ENGINEERING TECHNOLOGIES

CIP Code: 15.9999

Program Overview

Our Engineering program provides an environment for a creative person to learn at their own pace and excel in their areas of interest. Students will be immersed in the design process and develop, test and implement engineering solutions to real world problems. Students will solve problems independently, and as a design team, creating prototypes and solutions. We will explore various types of additive manufacturing with a focus on using CAD and design to create products. Students will have an opportunity to take certification exams in programs such as SOLIDWORKS and Autodesk.

Students will learn and apply the principles of power and energy, motion, mechanical advantage and hydraulics and pneumatics. Students will study material properties and use them in the engineering process. We will also explore the principles of green energy and basic electronics.

Our Engineering curriculum includes one of the latest collaborative robots that are used in the real world of automation. Students will also be exposed to automation experience from various industries. They will have the opportunity to explore automation and open and closed loop systems with the use of various sensors and programming opportunities through Robotics. The program will give students an understanding of manufacturing systems and their implementation.

By covering a broad spectrum of Industrial concepts, our engineering curriculum provides students with great base of knowledge and experience so that a participant in our program will be capable of doing many different types of jobs in industry after they graduate.

Classes are held Monday thru Friday from 8:15am-2:45pm.

Program Cost: \$8,250.00 - Effective 7/1/2025

**Estimated expenses not included in tuition: Required clearances (\$55.00), certification testing (\$500.00), textbook/online materials (N/A), supply (N/A) and/or uniform (N/A) costs.*

Textbook/Online Materials Requirements:

AutoCAD, AutoCAD Inventor, AutoCAD Revit, Solid Edge, Solid Works (Online Software)

Certifications: AutoCAD, AutoCAD Inventor, AutoCAD Revit, Solid Edge, Solid Works, and NOCTI

Program Start Dates: Fall (Late August) OR Spring (Mid-January) Semester Annually

Program Length: 900 hours

Please contact the Adult Education Office by phone at 814-201-9837 or email to info@jefftech.edu for additional information.

As always, Thank you for choosing Jeff Tech!