



Let your creativity flow in the only 3-year program offered at Delaware Area Career Center!

In this career pathway, you will gain hands-on knowledge of the essentials of engineering. From design, to 3-D modeling, electronics, manufacturing and mechanical foundations, this program will equip you for an entry into the engineering field and further education.

Curriculum Highlights:

- Learn the engineering design process
- Read and interpret technical drawings
- Create 2-D and 3-D sketches
- Learn Solidworks 3-D modeling software
- Shop safety
- Opportunity to earn multiple professional certifications
- Opportunity to earn multiple college credit hours - FREE
- Electro-mechanical components, and maintenance of electro-mechanical systems.
- Hands-on labs with 3-D Printing, CNC Milling, and other mediums for creating prototypes
- Robotics basics with VEX Robotics
- Advanced robotics with Fanuc and Motoman
- DC and AC Electronics
- PLCs and ladder logic
- Hydraulic / Pneumatic systems
- Senior Project

Additional Benefits:

This career pathway has been designed in partnership with area businesses and local universities. Successful completion of this program will culminate with an opportunity to earn considerable amounts of college credit while still in high school, as well as a pathway into paid internships and possible employment at area businesses such as Honda, Worthington Industries, Rimrock, and Autotool.

Prerequisites:

- Minimum B- grade in freshman math class
- Engineering readiness exam
- Excellent attendance



Class Covers:

Engineering Design
Engineering Principles
DC and AC Electrical Circuits
Robotics
Computer Integrated Manufacturing
Manufacturing Operations

The Delaware Area Career Center, in partnership with community, is an innovative model for developing lifelong learners, quality leaders, and critical thinkers for the dynamic and global environment.

www.DelawareAreaCC.org

Campus Location	Delaware Area Career Center, South Campus	
Grade Level	10 - 12	
2018/2019 Fees <i>Fees are subject to change. See our web site for a breakdown of individual costs.</i>	Engineering Technology 10 - \$158.00 Engineering Technology 11 - \$212.00 Engineering Technology 12 - \$220.00	
High School Credits	10th Grade -	English 10 (1 credit) Electives (2 credits)
	11th Grade -	Electives (3 credits)
	12th Grade -	Electives (3 credits)
CTSOs	SkillsUSA, VEX Robotics Competitions	
Certifications	Solidworks CSWA Certification*** Fanuc Robotics, Handling Tool Operation & Programming*** Motoman FS100/DX100 Basic Programming w/Material Handling (Yakawa RAMTEC Merit Certification)*** Fanuc CNC CERT Allen Bradley Maintenance Tech PLC*** Parker Maintenance Tech, Industrial Hydraulics OSHA-10 General Industry***	
Technology Used	Solidworks VEX Robotics Fanuc Level CNC Mill and Lathe Electronics	3D Printers Allen Bradley PLCs Parker Hydraulics & Pneumatics Lincoln "RealWeld" Welding Trainer Fanuc and Motoman robotics

***Industry credential recognized by ODE for points toward graduation.

College Credit Acceptance

This program offers free college credit through an articulation agreement known as a CTAG, which stands for Career-Technical Assurance Guide. A CTAG works as guaranteed transfer credit to any state of Ohio public college that offers that class. These CTAGs are currently under development:

Class Name	Class Sequence	CTAG
Engineering Design	10th grade	CTMET005 - CAD I & II
Engineering Principles	10th grade	CAD I & II
DC & AC Electronic Circuits	11th grade	CTEEET001 - DC Circuits
Robotics	11th grade	CTEET002 - Digital Electronics
Computer Integrated Manufacturing	12th grade	CTEET003 - PLC
Manufacturing Operations	12th grade	CTMET004 - MFG Process

Instructors:

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Enroll online at DelawareAreaCC.org/DACCApp

This document is provided to you as an overview of the Delaware Area Career Center program. The information is not intended to be a binding contract and is subject to change at any time. For more information or clarification, please see the program instructor.

The Delaware Area Career Center (DACC) affirms that equal opportunities are offered without regard to race, color, religion, sex, military status, national origin, disability, age, and ancestry of person. For additional information visit our website at www.DelawareAreaCC.org