



The Engineering program of study focuses on the design, development, and use of engines, machines, and structures. CTE learners will learn how to apply science, mathematical methods, and empirical evidence to the innovation, design, construction, operation, and maintenance of different manufacturing systems.

Grade	Required CTE Courses
9	(3920) Introduction to Engineering Design—(PLTW) <i>SEM: 2 CR: 1</i>
10	(3949) Engineering Science—(PLTW) <i>SEM: 2 CR: 1</i>
11	(3919) Digital Electronics—(PLTW) <i>SEM: 2 CR: 2</i>
12	3926 Engineering Design & Development—(PLTW) <i>SEM: 2 CR: 1</i>

Certificates and Degrees Available	
High School	Autodesk Certified Professional or User (ACU) - Inventor*
Certificate/License	Engineer, Professional Fluid Power Systems Designer
	Certified Cost Estimator/Analyst
Associate’s Degree	Electrical and Electronics Engineering Engineering Technology
	Drafting and Design Technology/Technician, General
Bachelor’s Degree	Electrical and Electronics Engineering CAD/CADD Drafting and/or Design Technology/Technician
	Construction Engineering Technology/Technician
Master’s/Doctoral Professional Degree	Electrical and Electronics Engineering Mechanical Engineering

* Autodesk Certified Professional or User (ACU) - Inventor is provided to students in 11th or 12th grade. All other certificates and/or degrees are available to students upon graduation from high school.

Career Outlook			
Occupations	Median Wage	Annual Openings	% Growth
Aerospace Engineers	\$110,843	481	9%
Industrial Engineers	\$97,074	1,263	10%
Mechanical Engineers	\$91,107	1,535	11%
Chemical Engineers	\$112,819	474	9%
Electrical Engineers	\$98,405	1,137	10%