



Career Cluster: Engineering & Technology

Career Pathway: Engineering

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Chemistry	Physics	Secondary Math 2
EXPLORER COURSES: Choose one or more of the following courses.		
CAD Architectural Design 1 *	Engineering Principles 1 +	Plastics 1
CAD Mechanical Design 1 *	Engineering Technology	Robotics 1 +
CAM Automated Manufacturing	Machining 1 *	Robotics Technology
Composites 1	Manufacturing Principles 1 +	Welding Technician, Entry Level *
Electronics 1 * +	Metalworking 1	Woods 1
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Aerospace Engineering	Engineering Principles 2 *	Materials Science
Electronics 2 *	Manufacturing Principles 2 *	Robotics 2 *
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Electronics 3 *		
Engineering Capstone		
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Machine Operator > Production Technician	> Electro-Mechanical Technicians > Electronics Equipment Assembler	> Automation Engineer > CTE Teacher > Electrical Engineer > Electronics Drafter

Career and Technical Education provides all students access to high-quality, rigorous career-focused programs that result in attainment of credentials with labor market value. [Credentials of Value](#)

Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

Student Testimonial

"I have always liked doing hands-on projects and thinking of different ways to make something better. With the CTE classes I was able to see whole processes, from the design stage on paper to transferring that design and idea into a computer application, then all the way to building a prototype."

Hunter Okerlund
 Fremont High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Engineering & Technology

UtahCTE.org: [Fact Sheet](#)

Department of Workforce Services
[Utah Occupational Explorer](#)

TSA

is the Career and Technical Student Organization (CTSO) for students in the Engineering Career Pathway.

TSAweb.org | UtahTSA.org

[Utah TSA flyer](#)

