Utah Career and Technical Education Career Pathway Chart

2023-2024 School Year



Career Cluster: Engineering & Technology

Career Pathway: Engineering

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
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	Electronics 2 *	Materials Science	
CAD Mechanical Design 2 *	Engineering 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	CAD Mechanical Design 3 *	
CTE Internship	<u>Apprenticeship</u>		
POSTSECONDARY: There are many opti	ons for education and training beyond high school		
Utah System of Higher Education: <u>ushe.edu</u> (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	2-Year	4-Year
Certificate	Associate Degree	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 would like a career as a

manufacturing engineer and go on to pursue my own business in the manufacturing industry. CTE gave me experience for what my career will be like. CTE allowed me to work on the skills that I need to improve on in that specific area."

Garret Maycock Future Manufacturing Engineer

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



