



## Career Cluster: Engineering & Technology

### Career Pathway: Engineering

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

\* 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.			
	<b>1 2 Year Certificate</b>	<b>2 Year Associate Degree</b>	<b>4 Year Bachelor's Degree</b>
	> Machine Operator > Production Technician	> Electro-Mechanical Technicians > Electronics Equipment Assembler	> Automation Engineer > CTE Teacher > Electrical Engineer > Electronics Drafter

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](http://TSAweb.org) | [UtahTSA.org](http://UtahTSA.org)

[Utah TSA flyer](#)

