



## Career Cluster: Advanced Manufacturing & Engineering

### Career Pathway: Engineering

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Chemistry	Geographical Information Systems, Intro *	Math 1050 *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
3D Print Technology	Electromechanical 1	Manufacturing Principles 1 +	Robotics 1 +
Architectural Design 1 *	Electronics, Intro +	Mechanical Design and Engineering 1	Robotics Technology
CAM Automated Manufacturing	Engineering Principles 1 +	Metalworking 1	UAS: Drones, Intro *
Composites 1 *	Engineering Technology	Physics (AP)	Welding Technician, Entry *
Computer Programming 1 *	Machining 1 *	Plastics 1	Woodworking, Beginning
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Aerospace Engineering	Electromechanical 2	Materials Science	Robotics 2 *
Digital Electronics	Engineering Principles 2 *	Mechanical Design and Engineering 2	
<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.			
Automation Principles	Computer Programming, Advanced	Engineering Capstone	UAS: Design and Maintain
Calculus (AP)	Electronics, Advanced *	Mechanical Design and Engineering 3	
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Machine Operator</li> <li>&gt; Production Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Electro-Mechanical Technicians</li> <li>&gt; Electronics Equipment Assembler</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Automation Engineer</li> <li>&gt; CTE Teacher</li> <li>&gt; Electrical Engineer</li> <li>&gt; Electronics Drafter</li> </ul>

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.

### Advice to Students

“Taking a CTE course is not for the faint of heart. It is difficult and time consuming. However, through the courses you will fall in love with the subject you are studying. My advice is to never give up no matter how hard it gets.”

Ashley Zolnik  
 Future Manufacturing Engineer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Advanced Manufacturing & Engineering

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](#)





## Career Cluster: Advanced Manufacturing & Engineering

### Career Pathway: Manufacturing & Production

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school course that supports the Career Pathway (Course DOES NOT count towards the Pathway)			
Secondary Math 2			
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
3D Print Technology	Machining 1 *	Small Business Math *	
Biomanufacturing 1	Marketing 1 *	Welding Technician, Entry *	
CAM Automated Manufacturing	Manufacturing Technology	Woodworking, Beginning +	
Composites 1 * +	Mechanical Design and Engineering 1		
Entrepreneurship *	Plastics 1 +		
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Composites 2	Manufacturing Principles 1	Plastics 2	Woodworking, Intermediate
<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.			
Automation Principles	Non-Destructive Testing *	Woodworking, Advanced	
Manufacturing Principles 2	UAS: Design and Maintain		
CTE Internship	<a href="#">Apprenticeship</a>		
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
Utah System of Higher Education: <a href="https://www.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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Cabinetmaker</li> <li>&gt; Machine Operator</li> <li>&gt; Production Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Controls Technician</li> <li>&gt; Project Manager</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Manufacturing Engineer</li> <li>&gt; Product Designer</li> </ul>

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### Advice to Students

"I would definitely recommend taking CTE classes during high school. They teach multiple skills that you can use in life and give you many experiences that will allow you to have a head start in life."

Luke Asher  
 Future Precision Machinist

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Advanced Manufacturing & Engineering

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

### SkillsUSA | TSA

is the Career and Technical Student Organization (CTSO) for students in the Manufacturing & Production Career Pathway.

[SkillsUSA.org](https://www.skillsusa.org) | [TSAweb.org](https://www.tsa.org)  
[UtahSkillsUSA.org](https://www.utahskillsusa.org) | [UtahTSA.org](https://www.utahtsa.org)  
[SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



**Career Cluster: Advanced Manufacturing & Engineering**

**Career Pathway: Welding & Machining**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Machining 1 *	Sheet Metal	
Metal Working 1	Welding Technician, Entry *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Machining 2 *		
Welding Technician, Intermediate *		
<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.		
Machining 3	Welding-Pipe Fitting	Welding Technician, Advanced *
Non-Destructive Testing *	Welding-Structural Fitting	
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Tool and Die Maker > Tool Maker > Welder	> Machine Tool Technician > Welding Technician	> CTE Teacher > Machine Tool Engineer > Welding Engineer

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**Advice to Students**

“**CTE courses can help you** decide what career you would like and provide necessary instruction and training that can help you be successful in the future. They teach real world skills that can transfer to many different careers.”

Breanna Duvall  
 Future Welde

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Advanced Manufacturing & Engineering**

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

**FFA | SkillsUSA**

is the Career and Technical Student Organization (CTSO) for students in the Welding & Machining Career Pathway.

[FFA.org](http://FFA.org) | [SkillsUSA.org](http://SkillsUSA.org)  
[UtahFFA.org](http://UtahFFA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)  
[Utah FFA flyer](#) | [SkillsUSA Utah flyer](#)





**Career Cluster: Agriculture**

**Career Pathway: Agricultural Mechanics Systems**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
Agriculture, Intro	Agriculture, Intro 2	
<b>HIGH SCHOOL</b>		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
ASE Diesel IMMR *	Construction Management 2 *	Plumbing 1
Carpentry 1 *	Electrician 1 *	Welding Technician, Intermediate *
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Agricultural Biotechnology	Biology-Agricultural Science	Industrial and Agriculture Technology
Agricultural Science 1	Business Communication 1 *	UAS: Drones, Intro *
Agricultural Science and Technology Application *	Business Communication 2	Welding Technician, Entry *
Agricultural Mechanics and Technology 1 * +	Business Leadership 1 *	
Automotive, Intro * +	Construction Trades Foundation * +	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Agricultural Mechanics and Technology 2		
<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.		
Agricultural Machinery Technology	Agricultural Mechanics, Advanced *	Welding Technician, Advanced *
CTE Internship	<a href="#">Apprenticeship</a>	
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\* concurrent enrollment course + recommended explorer course

<b>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</b>			
There are several options for education and training beyond high school, depending on your career goals.			
	<b>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Hydraulic Technician</li> <li>&gt; Maintenance Service Tech.</li> <li>&gt; Welder</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Agricultural Engineer Tech.</li> <li>&gt; Diesel Mechanic</li> <li>&gt; Equipment Dealer Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Agricultural Engineer</li> <li>&gt; CTE Teacher</li> <li>&gt; Welding Engineer</li> </ul>

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**Advice to Students**

“Take as many CTE courses as you can. Take them early so that you can get a head start in your education. These classes help you to figure out what you really want to do in life.”

Dallon Clarke  
 Future Diesel Technician

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture**

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

**FFA**

is the Career and Technical Student (CTS) Organization for students in the Agricultural Mechanics Systems Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)  
[Utah FFA flyer](#)





**Career Cluster: Agriculture**

**Career Pathway: Agricultural Production Systems**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>	
College and Career Awareness	
Agriculture, Intro	Agriculture, Intro 2
<b>HIGH SCHOOL</b>	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.	
Agricultural Biotechnology	Business Communication 1 *
Agricultural Science 1 +	Business Communication 2
Agricultural Science and Technology Application *	Business Leadership 1 *
Biology-Agricultural Science	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.	
Agricultural Science 2	
<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.	
CTE Internship	<a href="#">Apprenticeship</a>
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.	
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\* concurrent enrollment course + recommended explorer course

<b>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</b>			
There are several options for education and training beyond high school, depending on your career goals.			
	<b>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Crop Scout</li> <li>&gt; Pesticide Handler/Applicator</li> <li>&gt; Storage and Hygiene Coord.</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Agricultural Engineer Tech.</li> <li>&gt; Sales Representative</li> <li>&gt; Slaughter/Processor</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Agricultural Inspectors</li> <li>&gt; CTE Teacher</li> <li>&gt; Farm/Ranch Manager</li> </ul>

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**Advice to Students**

"I would tell every student in high school that taking CTE classes during high school is very helpful. I really do believe that these classes have better prepared me to pursue a career that I love."

Hadlee Taylor  
 Future Agricultural Economist

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture**

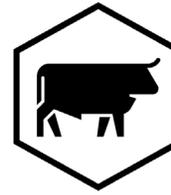
Department of Workforce Services  
[Utah Occupational Explorer](#)

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[FFA.org](http://FFA.org) | [UtahFFA.org](#)  
[Utah FFA flyer](#)





**Career Cluster: Agriculture**

**Career Pathway: Animal & Veterinary Science**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
Agriculture, Intro	Agriculture, Intro 2	
<b>HIGH SCHOOL</b>		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Agricultural Biotechnology	Business Communication 1 *	
Agricultural Science 1	Business Communication 2	
Agricultural Science and Technology Application *	Business Leadership 1 *	
Animal Science 1 * +	Equine Science 1 +	
Aquaculture +	Veterinary Assistant 1 +	
Biology-Agricultural Science		
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Animal Science 2 *	Guide Dog Training	Veterinary Assistant 2
Equine Science 2	Small Companion Animal Science	
<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.		
Food Products and Processing		
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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\* 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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Artificial Inseminator</li> <li>&gt; Livestock Auctioneer</li> <li>&gt; Shipping Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Herdsman</li> <li>&gt; Livestock Buyer</li> <li>&gt; Veterinary Assistant</li> <li>&gt; Veterinary Technologist/Tech.</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Animal Nutrition Specialist</li> <li>&gt; CTE Teacher</li> <li>&gt; Farm/Ranch Manager</li> </ul>

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**Advice to Students**

"I would advise students to make sure they [complete] one CTE Pathway. Building new skills by taking these classes will make your resume look amazing. Especially if you earn the certificates after passing the class at the end of the year."

Mylee Burgon  
 Future Veterinary Technician

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture**

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

**FFA**

is the Career and Technical Student Organization (CTSO) for students in the Animal & Veterinary Science Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)  
[Utah FFA flyer](#)





**Career Cluster: Agriculture**

**Career Pathway: Food Science, Dietetics & Nutrition**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
FCS 6th Grade		
FCS Exploration		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Food and Nutrition +	Human Development *	Medical Anatomy and Physiology *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Dietetics and Nutrition 1		
<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.		
Dietetics and Nutrition 2	Food Science	
Food Products and Processing	Foundations of Nutrition *	
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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\* 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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Food Protections Manager</li> <li>&gt; Food Inspector Assistant</li> <li>&gt; Food Sanitation Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Research and Development Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Dietitian/Nutritionist</li> <li>&gt; Food Scientist</li> </ul>

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**Advice to Students**

**“Enroll in CTE, you will not regret it!** CTE classes will undoubtedly help you see what you want for your future and help in your journey of self-discovery. I have not taken a CTE class in which I did not learn something about myself or a skill that will help me in the future and in life.”

Cambri Schmitt  
 Future Registered Dietitian

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture**

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

**FCCLA**

is the Career and Technical Student Organization (CTSO) for students in the Food Science, Dietetics & Nutrition Career Pathway.

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)  
[Utah FCCLA flyer](#)





**Career Cluster: Agriculture**

**Career Pathway: Plant Science**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
Agriculture, Intro	Agriculture, Intro 2	
<b>HIGH SCHOOL</b>		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Agricultural Biotechnology	Biology-Agricultural Science	Business Leadership 1 *
Agricultural Science 1	Business Communication 1 *	Plant and Soil Science 1 * +
Agricultural Science and Technology Application *	Business Communication 2	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Floriculture 1	Landscape Architecture, Intro	Plant and Soil Science 2
Floriculture and Greenhouse Mgmt.	Nursery Operation	Sustainable Urban Agriculture
<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.		
Floriculture 2	Greenhouse Management	Landscape Management *
CTE Internship	<a href="#">Apprenticeship</a>	
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\* concurrent enrollment course + recommended explorer course

<b>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</b>			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Crop Scout</li> <li>&gt; Irrigation Specialist</li> <li>&gt; Pesticide Handler/Applicator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Arborist</li> <li>&gt; Landscape Technician</li> <li>&gt; Turf Manager</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Crop Advisor</li> <li>&gt; Landscape Designer/Architect</li> </ul>

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**Advice to Students**

“In high school you are given opportunities to take many different classes. These classes are built into a CTE Pathway. If you find a class you like I suggest you find out what other classes are in that pathway and work on completing a pathway. CTE Pathways are a great opportunity to find future career interests.”

Morgyn Orgill  
 Future Agricultural Education Teacher

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture**

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

**FFA**

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

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)  
[Utah FFA flyer](#)





**Career Cluster: Arts, Entertainment & Design**

**Career Pathway: Broadcasting & Digital Media**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>			
College and Career Awareness			
<b>HIGH SCHOOL</b>			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Drawing 1 *	Marketing 1 *	Photography *	
Film Making *	Painting	Theater	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
2D Art and Design (AP)	Computer Science Principles (AP) * +	UAS: Drones, Intro *	
3D Print Technology	Digital Media 1 * +	Video Production 1 *	
AR/VR * + (Augmented Reality and Virtual Reality)	Digital Media 2 *	Web Development 1 * +	
Computer Programming 1 * +	Graphic Print Design 1 * +		
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
3D Animation 1 * +	Digital Audio 1	Radio Production 1	Video Production 2 *
3D Graphics 1 *	Digital Media, Advanced *	TV Broadcasting 1 *	
<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.			
3D Animation 2	Digital Audio 2	Radio Production 2	Video Production Capstone
3D Graphics 2	Digital Media Capstone	TV Broadcasting 2 *	
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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\* 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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Camera Operator</li> <li>&gt; Designer</li> <li>&gt; Graphic Artist</li> <li>&gt; Videographer Editor</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Audio Technician</li> <li>&gt; Audio Video Equipment Tech.</li> <li>&gt; Broadcast Technician</li> <li>&gt; Production Specialist</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Audio Engineer</li> <li>&gt; CTE Teacher</li> <li>&gt; Motion Graphic Artist</li> <li>&gt; Producer</li> </ul>

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**Advice to Students**

"I would highly recommend getting involved in everything CTE has to offer. You only have so much time in high school so DON'T WAIT! Being in CTE classes allowed me to get internships and eventually a job in the video production industry."

Foster Parker  
 Future Film Director

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Arts, Entertainment & Design**

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

**SkillsUSA**

is the Career and Technical Student Organization (CTSO) for students in the Broadcasting & Digital Media Career Pathway.

[SkillsUSA.org](https://SkillsUSA.org) | [UtahSkillsUSA.org](https://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)





**Career Cluster: Arts, Entertainment & Design**

**Career Pathway: Fashion Apparel & Textiles**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
FCS 6th Grade		
FCS Exploration		
<b>HIGH SCHOOL</b>		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Entrepreneurship *	Small Business Math *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Digital Media 1 *	Screen Printing Technology *	
Sports and Outdoor Design 1 * +	Sewing Construction and Textiles 1 +	Fashion Design Studio * +
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Sports and Outdoor Design 2 *	Sewing Construction and Textiles 2	Fashion Design Merchandising
<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.		
Textile Technology	Sewing Construction and Textiles 3	Fashion Merchandising, Advanced
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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

<b>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</b>			
There are several options for education and training beyond high school, depending on your career goals.			
	<b>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Graphic Designer	> Fashion Design and Merchandising	> CTE Teacher > Fashion Designer > Fashion Illustrator > Textile Scientist

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.

**Advice to Students**

“Discover a passion and pursue it. CTE provides credits for graduation and sparks perseverance to thrive beyond high school. Complete a CTE Pathway. They are priceless because they provide a kickstart to occupations.”

Sophia Alba  
 Future Fashion Designer

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Arts, Entertainment & Design**

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

**FCCLA**

is the Career and Technical Student Organization (CTSO) for students in the Fashion Apparel & Textiles Career Pathway.

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)  
[Utah FCCLA flyer](#)





**Career Cluster: Arts, Entertainment & Design**

**Career Pathway: Graphic Design & Communication**

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Drawing 1 *	Math 1050 *	Photography *	
English 1010	Painting	Small Business Math *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Commercial Art 1 * +	Digital Illustration *	Graphic Print Design 1 *	
Commercial Photography 1 *	Digital Media 1 * +	Interior Design 1 *	
Customer Service *	Digital Media 2 *	Mechanical Design and Engineering 1	UAS: Drones, Intro *
Digital Business Applications *	Entrepreneurship *	Retailing *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Commercial Art 2 *		Graphic Print Design 2 *	
Commercial Photography 2 *		Screen Printing Technology *	
<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.			
Commercial Art 3	Commercial Photography 3	Graphic Print Design 3	Graphic Design Capstone *
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Camera Operator > Commercial Photographer	> Graphic Artist > UX/UI Designer > Web Designer	> Art Director > CTE Teacher > Commercial Designer > Product Developer > Web/App Developer

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.

**Advice to Students**

"It is amazing to take CTE courses and learn so many different skills. I was trying to find my future when I took commercial art and discovered that I loved it! If you find something you like try to do an internship. You will be able to get more hands-on experience in the field and you will get to see what's going on in the real world."

Zachary Gray  
 Future Graphic Designe

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Arts, Entertainment & Design**

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

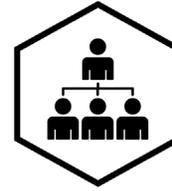
**FBLA | SkillsUSA | TSA**

are the Career and Technical Student Organizations (CTSO) for students in the Graphic Design & Communication Career Pathway.

[FBLA-PBL.org](#) | [Utah-FBLA-PBL.org](#) | [Utah FBLA flyer](#)

[SkillsUSA.org](#) | [UtahSkillsUSA.org](#) | [SkillsUSA Utah flyer](#)

[TSAweb.org](#) | [UtahTSA.org](#) | [Utah TSA flyer](#)



## Career Cluster: Business Management & Entrepreneurship

### Career Pathway: Business

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Digital Marketing *	Influencer and Content Marketing	Sports and Outdoor Design 1 *	
Hospitality and Tourism *	Investing and Wealth Management		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Accounting 1 * +	Business Office Specialist *	Entrepreneurship * +	Small Business Math *
Business Communication 1 * +	Customer Service *	Exploring Business, Finance, and Marketing	Sports and Outdoor Recreation Marketing
Business Communication 2	Digital Business Applications *	Marketing 1 * +	Web Development 1 *
Business Law +	Digital Media 1 *	Real Estate	
Business Leadership 1 * +	Economics * (IB)	Retailing *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Business Management * (IB)		Business Leadership 2	
<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.			
Business, Finance, and Marketing Capstone			
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
Utah System of Higher Education: <a href="https://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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Business Analyst</li> <li>&gt; Entrepreneur</li> <li>&gt; Supply Chain Professional</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Account Representative</li> <li>&gt; Consumer Advocate</li> <li>&gt; Dispute Resolution Analyst</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Budget Analyst</li> <li>&gt; CTE Teacher</li> <li>&gt; Credit Counselor</li> <li>&gt; Financial Manager</li> </ul>

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.

### Advice to Students

"Taking CTE classes has helped me a lot. The classes are engaging while also being informative. I would suggest taking them because not only do you get a certificate you also learn a lot of valuable skills. There is no downside to CTE classes."

Logan Burrell  
 Future Business Owner

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Business Management & Entrepreneurship

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

### DECA | FBLA

are the Career and Technical Student Organizations (CTSO) for students in the Business Career Pathway.

[DECAdirect.org](https://deca.org) | [UtahDECA.org](https://utahdeca.org) | [Utah DECA flyer](#)  
[FBLA-PBL.org](https://fbla-pbl.org) | [Utah-FBLA-PBL.org](https://utah-fbla-pbl.org) | [Utah FBLA flyer](#)





## Career Cluster: Construction

### Career Pathway: Architectural & Interior Design

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
Exploring Technology	FCS 6th Grade	FCS Exploration
<b>HIGH SCHOOL</b>		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Entrepreneurship *	Secondary Math 2	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Architectural Design 1 * +	Construction Trades Foundation *	Small Business Math *
Business Communication 1 *	Digital Media 1 *	UAS: Drones, Intro *
Construction Technology	Interior Design 1 * +	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Architectural Design 2 *	Interior Design 2 *	
<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.		
Architectural Design 3 *	Interior Design 3	Sewing Construction and Textiles 3
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Civil Drafter	> Architectural Drafter > Civil Drafter > Photo Stylist	> Architect > Architectural and Engineering Manager > Civil Engineer > Interior Designer

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.

### Advice to Students

“Just do it! You don’t look as cool outside of class as you do inside a Career and Technical Education course. Real life experience is priceless. CTSOs provide the opportunity to learn and grow.”

Eric Manzanares  
 Future Architect

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Construction

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

### FCCLA | TSA

are the Career and Technical Student Organization (CTSO) for students in the Architectural & Interior Design Career Pathway.

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)  
[Utah FCCLA flyer](#)

[TSAweb.org](http://TSAweb.org) | [UtahTSA.org](http://UtahTSA.org)  
[Utah TSA flyer](#)



## Career Cluster: Construction

# Career Pathway: Construction & Structural Systems

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>			
College and Career Awareness			
Exploring Technology			
<b>HIGH SCHOOL</b>			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	English 1010		
Customer Service *	Math 1050 *		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Entrepreneurship *	Welding Technician, Entry *	
Architectural Design 1 * +	Interior Design 1 *	Woodworking, Beginning +	
Construction Technology +	Metalworking 1		
Construction Trades Foundation * +	UAS: Drones, Intro *		
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Electrician 1 *	Plumbing 1	Residential Construction 1 *	
<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.			
Construction Capstone	Electrician 2	Plumbing 2	Residential Construction 2 *
CTE Internship	<a href="#">Apprenticeship</a>		
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
Utah System of Higher Education: <a href="https://www.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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Electrical and Electronics Engineering Technician > Pipefitter (Journey Level) > Plumber (Journey Level)	> Carpenter > Electrical Drafter > General Contractor	> CTE Teacher > Civil Engineer > Construction Manager > Electrical Engineer > Environmental Engineer

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.

### Advice to Students

"Take as many CTE classes as you can. It is a great way to learn a little bit about a lot of different areas. CTE classes taught me about careers that I did not know about. It is a great way to develop skills that will help you throughout your life. I also met good friends in CTE classes because I was able to be around people with the same interests."

Tyler Bruck  
 Future Construction Manager

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Construction

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

### SkillsUSA

is the Career and Technical Student Organization (CTSO) for students in the Construction & Structural Systems Career Pathway.

[SkillsUSA.org](https://www.skillsusa.org) | [UtahSkillsUSA.org](https://www.utahskillsusa.org)  
[SkillsUSA Utah flyer](#)





## Career Cluster: Digital Technology

### Career Pathway: Cybersecurity

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Computer Science Investigations	Python 1, Intro	
Creative Coding	Python 2, Intro	
HIGH SCHOOL		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Law Enforcement *	Secondary Math 2	Secondary Math 3
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Computer Programming 1 *	Data Science	Math 1050 *
Computer Science Principles *	Exploring Computer Science *	Web Development 1 *
Computer Science Principles (AP) *	IT and Cybersecurity, Intro *	
Data Analytics *	Linux Fundamentals *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
AP CK – Cyber: Networking	Network Fundamentals *	Principles of Cyber Defense and Ethics *
<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.		
AP CK – Cyber: Security	Cyber Forensics *	
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
Utah System of Higher Education: <a href="https://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>Certificate</b> > Computer Technician > Cybersecurity Operations > Security Specialist	<b>2-Year Associate Degree</b> > Computer Network Support > Cybersecurity Technical Writer > Security Architect > Vulnerability Analysis	<b>4-Year Bachelor's Degree</b> > CTE Teacher > Computer and Information Systems Manager > Security App. Programmer > Security Engineer

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.

### Advice to Students

“Take a wide variety of CTE classes because high school is your time to explore your interests. Taking these classes will help guide you on your future career. Put forth the effort and time it takes to get the certifications because they can be a valuable asset, and it is cheaper and easier to earn them now.”

Alea Maxwell  
 Future Cybersecurity Specialist

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Digital Technology

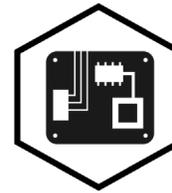
Department of Workforce Services  
[Utah Occupational Explorer](#)

### FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in Cybersecurity Career Pathway.

[FBLA-PBL.org](#) | [SkillsUSA.org](#) | [TSAweb.org](#)  
[Utah-FBLA-PBL.org](#) | [UtahSkillsUSA.org](#) | [UtahTSA.org](#)

[Utah FBLA flyer](#) | [SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



## Career Cluster: Digital Technology

# Career Pathway: Information Technology Systems

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Computer Science Investigations	Python 1, Intro	Robotics Technology	
Creative Coding	Python 2, Intro		
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Network Fundamentals *	Secondary Math 2	Secondary Math 3	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
3D Print Technology	Data Analytics *	Linux Fundamentals *	Web Development 1 *
Computer Programming 1 *	Data Science	Math 1050 *	
Computer Science Principles *	Exploring Computer Science *	Robotics 1	
Computer Science Principles (AP) *	IT and Cybersecurity, Intro *	UAS: Drones, Intro *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.			
Cloud Computing 1 *	Computer Systems 1	Geographical Information Systems, Intro *	
<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.			
Cloud Computing 2 *	Computer Systems 2 *	Geographical Information Systems Remote Sensing	
CTE Internship	<a href="#">Apprenticeship</a>		
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
Utah System of Higher Education: <a href="https://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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> <li>&gt; Computer Service Technician</li> <li>&gt; Data Center Technician</li> <li>&gt; Service Desk Analyst</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Computer Network Technician</li> <li>&gt; Computer Systems Manager</li> <li>&gt; Database Administrator</li> <li>&gt; IT Coordinator</li> </ul>

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.

### Advice to Students

"I am grateful to all of my CTE teachers who have passions for the different types of classes they teach. My father has always told me, and my siblings, that the CTE courses offered in high school are a once in a lifetime opportunity."

Taevin Hunter  
 Future IT Specialist

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Digital Technology

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

### FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in Information Technology Systems Career Pathway.

[FBLA-PBL.org](#) | [SkillsUSA.org](#) | [TSAweb.org](#)  
[Utah-FBLA-PBL.org](#) | [UtahSkillsUSA.org](#) | [UtahTSA.org](#)

[Utah FBLA flyer](#) | [SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



## Career Cluster: Digital Technology

# Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Computer Science Investigations	Digital Literacy	Python 2, Intro	
Creative Coding	Python 1, Intro	Robotics Technology	
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Entrepreneurship *	Physics *	Secondary Math 2	Secondary Math 3
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
3D Print Technology	Computer Science Principles (AP) *	Exploring Computer Science *	Robotics 1
AR/VR * + (Augmented Reality and Virtual Reality)	Data Analytics *	IT and Cybersecurity, Intro *	UAS: Drones, Intro *
Computer Programming 1 *	Data Science	Math 1050 *	Web Development 1 *
Computer Science Principles *	Engineering Principles 1	Mobile Development Fundamentals	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Computer Programming 2 *	Computer Science HL 1 (IB)	Database Development *	
Computer Science A (AP)	Computer Science SL 1 (IB)	Game Development Fundamentals 1	
<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.			
Algorithms and Data Structures *	Computer Science HL 2 (IB)	Game Development Fundamentals 2	
Computer Programming, Advanced *	Computer Science SL 2 (IB)		
Computer Programming Capstone	Engineering Capstone		
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Entry Level Programmer	> Computer Systems Analyst > Game Play Programmer > Software Developer

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.

### Advice to Students

"I would highly recommend the CTE Pathway program to students. It is a great opportunity to earn college credit at a much more affordable price and gives you an advantage over anyone graduating from a traditional pathway."

Jaren Woodbury  
 Future Software Developer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Digital Technology

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

### FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in the Programming & Software Development Career Pathway.

[FBLA-PBL.org](#) | [SkillsUSA.org](#) | [TSAweb.org](#)  
[Utah-FBLA-PBL.org](#) | [UtahSkillsUSA.org](#) | [UtahTSA.org](#)  
[Utah FBLA flyer](#) | [SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



## Career Cluster: Digital Technology

### Career Pathway: Web Development

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Computer Science Investigations	Python 1, Intro	
Creative Coding	Python 2, Intro	
HIGH SCHOOL		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Secondary Math 2	Secondary Math 3	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Computer Programming 1 *	Entrepreneurship *	Math 1050 *
Computer Science Principles *	Exploring Computer Science *	Web Development 1 *
Computer Science Principles (AP) *	IT and Cybersecurity, Intro *	
Digital Media 1 *	Marketing 1 *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
UX/UI and Quality Assurances	Web Development 2	
<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.		
Web Development, Advanced	Web Development Projects *	
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
Utah System of Higher Education: <a href="https://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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Graphic Artist</li> <li>&gt; Web Analyst</li> <li>&gt; Web Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Web Developer</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Full Stack Developer</li> <li>&gt; UI/UX Designer</li> </ul>

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.

### Advice to Students

**“Take advantage of every opportunity.**  
 Start planning your courses now. Learn from your teachers, parents, leaders, friends, and others around you. It’s never too early to learn and plan. Enjoy high school.”

Travis Cook  
 Future Web Developer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Digital Technology

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

### FBLA | SkillsUSA | TSA

are the Career and Technical Student Organizations (CTSO) for students in the Web Development Career Pathway.

[FBLA-PBL.org](#) | [SkillsUSA.org](#) | [TSAweb.org](#)  
[Utah-FBLA-PBL.org](#) | [UtahSkillsUSA.org](#) | [UtahTSA.org](#)

[Utah FBLA flyer](#) | [SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



**Career Cluster: Education**

**Career Pathway: Pre-K: Early Childhood Education**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
FCS 6th Grade		
FCS Exploration		
HIGH SCHOOL		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Business Office Specialist *	Early Childhood Education 1 * +	Food and Nutrition
Child Development	Entrepreneurship *	Small Business Math *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Early Childhood Education 2 *		
<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.		
Early Childhood Education 3		
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Teacher Assistant	> Education Administrator, Preschool > Preschool Teacher Assistant	> CTE Teacher > Elementary Education Teacher > Special Education Teacher > Social Worker

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.

**Advice to Students**

“Take as many CTE classes as you can because those classes will be the things that you will actually use in day-to-day life. The CTE classes I’ve taken have helped me to gain knowledge that I will need throughout my life.”

Tanna Andersen  
 Future Preschool Teacher

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Education**

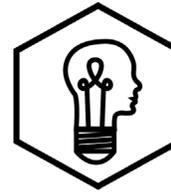
Department of Workforce Services  
[Utah Occupational Explorer](#)

**EdRising | FCCLA**

are the Career and Technical Student Organizations (CTSOs) for students in the Pre-K: Early Childhood Education Career Pathway.

- [FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)
- [Utah FCCLA flyer](#)
- [EducatorsRising.org](http://EducatorsRising.org)
- [Utah Educators Rising flyer](#)





**Career Cluster: Education**

**Career Pathway: K-12: Teaching as a Profession**

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Digital Literacy		
HIGH SCHOOL		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Behavior Health, Intro	Psychology *	
Business Communication 2	Web Development 1 *	
Business Office Specialist *		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Business Communication 1 *	Human Development *	Math 1050 *
English 1010 or English 2010	Math 1030	Teaching as a Profession +
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
Aspiring Educators *		
<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.		
Principles of Educational Instruction *	K-12: Teaching as a Profession Capstone	
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Teacher Assistant/ Para Professional	> Preschool Teacher

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.

**Advice to Students**

“**CTE courses provide** academic skills, technical skills, knowledge, training, the advantage of giving you an idea of what career you want to [pursue], and real-world experiences. So, come with a positive attitude and a mind ready to grow.”

Kennedy Smith  
 Future Elementary School Teacher

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Education**

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

**Educators Rising**

is the Career and Technical Student Organization (CTSO) for students in the K-12: Teaching as a Profession Career Pathway.

[EducatorsRising.org](http://EducatorsRising.org)  
[Utah Educators Rising flyer](#)





**Career Cluster: Energy & Natural Resources**

**Career Pathway: Natural Resource Science**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>	
College and Career Awareness	
Agriculture, Intro	Agriculture, Intro 2
<b>HIGH SCHOOL</b>	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.	
Agricultural Biotechnology	Business Communication 1 *
Agricultural Science 1	Business Communication 2
Agricultural Science and Technology Application *	Business Leadership 1 *
Aquaculture +	Natural Resource Science * 1 +
Biology-Agricultural Science	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.	
Natural Resource Science 2 *	
<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.	
CTE Internship	<a href="#">Apprenticeship</a>
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.	
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Firefighter > Heavy Equipment Operator > Pesticide Handler/Applicator	> Arborist > Fisheries Technician > Forestry Technician	> CTE Teacher > Conservation Officer/Scientist > Wildlife Biologist

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.

**Advice to Students**

“CTE provides you with job like classes where you get exposure to what you would be doing as if you were working in that field. Take as many classes as you can. You won’t regret it.”

Presley Chappell  
 Future Natural Resource Specialist

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Energy & Natural Resources**

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

**FFA**

is the Career and Technical Student Organization (CTSO) for students in the Natural Resource Science Career Pathway.

[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)  
[Utah FFA flyer](#)





## Career Cluster: Financial Services

### Career Pathway: Finance

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
<b>SUPPORTING COURSE:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Leadership 2	Digital Marketing *	General Financial Literacy	
Business Management * (IB)	Hospitality and Tourism *		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Accounting 1 * +	Business Law +	Entrepreneurship *	Retailing *
Business Communication 1 *	Customer Service *	Exploring Business, Finance, and Marketing	Small Business Math *
Business Communication 2	Digital Business Applications *	Marketing 1 *	Sports and Outdoor Recreation Marketing
Business Office Specialist *	Economics * + (IB)	Real Estate	Web Development 1 *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Accounting 2 *	Accounting, Advanced	Investing and Wealth Management	
<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.			
Business, Finance, and Marketing Capstone			
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	> Credit Counselor > Tax Preparer	> Accounting/Audit Clerk > Bookkeeper > Customer Service Financial Rep.	> Accountant > Auditor > CTE Teacher > Financial Manager

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.

### Advice to Students

“Being involved in CTE is a wonderful opportunity in high school. I encourage all high schoolers to be involved in CTE. Completing a CTE Pathway will help prepare you for college and your career by allowing you to learn so much more about business.”

Will Marx  
 Future Business Professional

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Financial Services

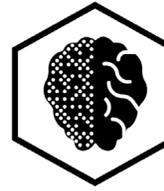
Department of Workforce Services  
[Utah Occupational Explorer](#)

### FBLA

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

[FBLA-PBL.org](http://FBLA-PBL.org) | [Utah-FBLA-PBL.org](http://Utah-FBLA-PBL.org)  
[Utah FBLA flyer](#)





## Career Cluster: Healthcare & Human Services

### Career Pathway: Family & Human Services

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>	
College and Career Awareness	
<b>HIGH SCHOOL</b>	
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)	
Business Leadership 1 *	Small Business Math *
Medical Terminology *	Sociology *
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.	
Behavioral Health, Intro +	Human Development *
Health Science, Intro	Psychology *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.	
Individual and Family Relationships *	Personal and Family Finance *
<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.	
Behavioral Health, Advanced (coming soon)	Community and Public Health
CTE Internship	<a href="#">Apprenticeship</a>
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.	
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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> <li>&gt; Autism Technician</li> <li>&gt; Community Health Worker</li> <li>&gt; Job Coach</li> <li>&gt; Life Coach</li> <li>&gt; Peer Support Specialist</li> <li>&gt; Registered Behavior Tech.</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Alcohol and Drug Counselor</li> <li>&gt; Community/Social Service Assistant</li> <li>&gt; Psychiatric Technician</li> <li>&gt; Licensed Vocational Nurse</li> </ul>

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.

### Advice to Students

“These classes will help you with your own self-image and help you decide what you want to do in your life, whether it is helping others, working for others, or working for yourself.”

Bailey Abel  
 Future Teacher

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Healthcare & Human Services

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

### FCCLA | HOSA

is the Career and Technical Student Organization (CTSO) for the students in the Family & Human Services Career Pathway.

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)  
[Utah FCCLA flyer](#)

[HOSA.org](http://HOSA.org) | [UTHOSA.wordpress.com](http://UTHOSA.wordpress.com)  
[Utah HOSA flyer](#)



**Career Cluster: Healthcare & Human Services**

**Career Pathway: Healthcare**

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Health Science			
HIGH SCHOOL			
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Behavioral Health, Intro	Foundations of Nutrition *	Human Development *	Medical Terminology *
Community and Public Health	Health Science, Intro	Medical Math	Psychology *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Biotechnology *	IB Sports Exercise and Health Science SL 1	Medical Forensics *	
Emergency Medical Response *	IB Sports Exercise and Health Science SL 2	Physical Therapy, Intro *	
Exercise Science/Sports Medicine *	Medical Anatomy and Physiology *		
<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.			
Dental Assistant #	IB Sports Exercise and Health Science HL 2	Pharmacy Technician **	
Emergency Medical Technician * #	Medical Anatomy and Physiology, Advanced	Surgical Technician **	
Health Science Capstone *	Medical Assistant #		
IB Sports Exercise and Health Science HL 1	Nurse Assistant (CNA) * #		
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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 # multiple credit courses count as both concentrator and completer courses

**HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING**

There are several options for education and training beyond high school, depending on your career goals.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Certified Nurse Assistant</li> <li>&gt; Clinical Lab Assistant</li> <li>&gt; Emergency Medical Technician</li> <li>&gt; Medical Assistant</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Dental Hygienist</li> <li>&gt; Occupational Therapy Assistant</li> <li>&gt; Medical Laboratory Scientist</li> <li>&gt; Registered Nurse (RN)</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Forensic Science Technician</li> <li>&gt; Microbiologist</li> </ul>

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.

**Advice to Students**

"By taking CTE classes you gain valuable skills and knowledge about your career field, college, and the workplace. The classes give you so much experience and insight. There are so many CTE Pathways. There is definitely something for everyone. I was able to gain experience in my future career through an internship."

Nicole Kirkwood  
 Future Occupational Therapy Assistant

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Healthcare & Human Services**

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

**HOSA**

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

[HOSA.org](http://HOSA.org) | [UTHOSA.wordpress.com](http://UTHOSA.wordpress.com)  
[Utah HOSA flyer](#)





**Career Cluster: Healthcare & Human Services**

**Career Pathway: Personal Care Services**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>			
College and Career Awareness			
<b>HIGH SCHOOL</b>			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Accounting 1 *		Digital Business Applications *	
Business Management *		Web Development 1 *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Business Leadership 1 *	Customer Service *	Marketing 1 *	Small Business Math *
Business Office Specialist *	Entrepreneurship *	Retailing *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Barbering *		Hair Design	
Basic Esthetician and Skin Care		Nail Technician/Specialist Manicurist *	
<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.			
Cosmetology * #			
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
Utah System of Higher Education: <a href="https://ushe.edu">ushe.edu</a> (Utah's public colleges and universities)		UtahMajors.org: <a href="#">Majors Guide</a>	

\* concurrent enrollment course + recommended explorer course # multiple credit courses count as both concentrator and completer courses

**HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING**

There are several options for education and training beyond high school, depending on your career goals.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Barber > Cosmetologist > Hair Designer > Manicurists and Pedicurists > Skincare Specialist (Esthetician)	> N/A

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.

**Advice to Students**

“CTE is an amazing opportunity to open your eyes to many different fields. You get a look into what you could potentially pursue and get hands-on experiences. Finding out what career is right for you while in high school is honestly a blessing.”

HadiLee Iverson  
 Future Cosmetologist

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Healthcare & Human Services**

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

**SkillsUSA**

is the Career and Technical Student Organization (CTSO) for the students in the Personal Care Services Career Pathway.

[SkillsUSA.org](https://SkillsUSA.org) | [UtahSkillsUSA.org](https://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)





## Career Cluster: Hospitality, Events & Tourism

### Career Pathway: Culinary Arts

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
FCS 6th Grade			
FCS Exploration			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Entrepreneurship *	Event Planning and Management	Hospitality and Tourism *	Small Business Math *
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Culinary 1 * +	Customer Service *	Food and Nutrition	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Culinary 2	ProStart® 1 +		
<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.			
Baking and Pastry	Culinary 3	ProStart® 2	
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> <li>&gt; Culinary Specialist</li> <li>&gt; Junior Sous Chef</li> <li>&gt; Line Cook</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Chocolatier</li> <li>&gt; Recipe Developer</li> <li>&gt; Sous Chef</li> </ul>

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.

### Advice to Students

“Taking a CTE class is something you will not regret. You will learn many wonderful skills that you will use throughout your life. Some of the best parts of these courses include meeting new people, learning new skills, and accomplishing great things. Know that your teachers are there to push you to be your best.”

Brooke Bodily  
 Future Chef

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Hospitality, Events & Tourism

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

### FCCLA

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

[FCCLAinc.org](http://FCCLAinc.org) | [UtahFCCLA.org](http://UtahFCCLA.org)  
[Utah FCCLA flyer](#)





## Career Cluster: Hospitality, Events & Tourism

### Career Pathway: Hospitality & Tourism

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Management * (IB)	Fashion Design Merchandising *	Influencer and Content Marketing	
Digital Marketing *	Fashion Merchandising, Advanced	Sports and Outdoor Design 1 *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Accounting 1 *	Business Leadership 1 *	Digital Media 1 *	Retailing *
Baking and Pastry	Business Office Specialist *	Economics * (IB)	Small Business Math *
Business Communication 1 *	Culinary 1 * +	Entrepreneurship * +	Sports and Outdoor Recreation Marketing
Business Communication 2	Customer Service * +	Exploring Business, Finance, and Marketing	Web Development 1 *
Business Law +	Digital Business Applications *	Marketing 1 * +	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Event Planning and Management		Hospitality and Tourism *	
<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.			
Business, Finance, and Marketing Capstone			
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Corporate Event Planner</li> <li>&gt; Hotel Management</li> <li>&gt; Travel Agent</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Hospitality Manager</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Marketing Manager</li> <li>&gt; Meeting, Convention, and Event Planner</li> </ul>

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.

### Advice to Students

"CTE courses have given me a head start and have helped me understand what I want to do with my future. Through my time in CTE classes I found my passion. If you are interested in a certain course or CTE Pathway go for it!"

Audrey White  
 Future Pastry Chef

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Hospitality, Events & Tourism

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

### FBLA

is the Career and Technical Student Organization (CTSO) for students in the Hospitality & Tourism Career Pathway.

[FBLA-PBL.org](http://FBLA-PBL.org) | [Utah-FBLA-PBL.org](http://Utah-FBLA-PBL.org)  
[Utah FBLA flyer](#)





## Career Cluster: Marketing

### Career Pathway: Marketing

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>			
College and Career Awareness			
Digital Literacy		Word Processing	
<b>HIGH SCHOOL</b>			
<b>SUPPORTING COURSE:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Management * (IB)	Fashion Design Merchandising *	Hospitality and Tourism *	
Event Planning and Management	Fashion Merchandising, Advanced	Web Development 2	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Accounting 1 *	Customer Service *	Exploring Business, Finance, and Marketing	Sports and Outdoor Recreation Marketing +
Business Communication 1 *	Digital Business Applications *	Marketing 1 * +	Web Development 1 *
Business Communication 2 +	Digital Media 1 *	Real Estate	
Business Law +	Economics * (IB)	Retailing *	
Business Office Specialist *	Entrepreneurship * +	Small Business Math *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Digital Marketing *		Influencer and Content Marketing	
<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.			
Business, Finance, and Marketing Capstone			
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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>Certificate</b>	<b>2-Year Associate Degree</b>	<b>4-Year Bachelor's Degree</b>
	<ul style="list-style-type: none"> <li>&gt; Brand Manager</li> <li>&gt; E-commerce Specialist</li> <li>&gt; Social Media Manager</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Advertising Sales Rep.</li> <li>&gt; Public Relations Assistant</li> <li>&gt; Marketing Research Assistant</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Art Director</li> <li>&gt; CTE Teacher</li> <li>&gt; Editor</li> <li>&gt; Graphic Designer</li> </ul>

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.

### Advice to Students

“The best classes I’ve taken are economics, accounting, financial literacy, and marketing. CTE classes are the best way to find out what kind of career you want to go into.”

Lillian Stirling  
Future Marketer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Marketing

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

### DECA

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

[DECAdirect.org](http://DECAdirect.org) | [UtahDECA.org](http://UtahDECA.org) | [Utah DECA flyer](#)





**Career Cluster: Public Service & Safety**

**Career Pathway: Protective Services**

<b>JUNIOR HIGH / MIDDLE SCHOOL</b>		
College and Career Awareness		
<b>HIGH SCHOOL</b>		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Business Law *	Cyber Forensics *	Emergency Medical Technician *
Commercial Photography 1 *	Emergency Medical Response *	Principles of Cyber Defense and Ethics
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Behavioral Health, Intro +	Fire Science, Intro	Medical Forensics *
Business Leadership 1 *	Health Science, Intro	UAS: Drones, Intro *
Criminal Justice, Intro *	Information Technology, Intro +	
Exploring Computer Science *	Law Enforcement *	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.		
Corrections *	Fire Science, Safety and Survival	Wildland Firefighter
Criminal Law *	Fire Science, Fire Behavior and Combustion	
<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.		
Careers in Criminal Justice *		
CTE Internship	<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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

<b>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</b>			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Firefighter</li> <li>&gt; First-Line Supervisor of Fire Fighting and Prevention Workers</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Paralegal/Legal Assistant</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; Criminal Justice   Law Enforcement Teachers</li> <li>&gt; Parole Officer</li> <li>&gt; Probation Officer</li> </ul>

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**Student Testimonial**

“CTE Pathways will give you a lifetime's worth of knowledge. When you take a CTE course put effort into it and don't take it for granted.”

Weston Brierley  
 Future Utah Highway Patrol Officer

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Public Service & Safety**

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

**HOSA | SkillsUSA**

are the Career and Technical Student Organizations (CTSO) for the students in the Protective Services Career Pathway.

[HOSA.org](http://HOSA.org) | [UTHOSA.wordpress.com](http://UTHOSA.wordpress.com)  
[Utah HOSA flyer](#)

[SkillsUSA.org](http://SkillsUSA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)



## Career Cluster: Supply Chain & Transportation

### Career Pathway: Automotive

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *		Math 1050 *	
English 1010		Small Business Math *	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Bicycle Repair Training	Entrepreneurship *	Welding Technician, Entry *
Automotive, Intro * +	Collision Non-Structural Repair * +	Machining 1 *	
Aviation Maintenance 1 *	Customer Service *	Small Engine Repair	
Basic Automotive Collision Repair	Electronics, Intro *	Supply Chains, Intro	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
ASE Chassis MLR *	Collision Structural Repair	Power Motor Sports Repair *	
ASE Engine MLR *	Electric Vehicle Safety and Technology		
<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.			
ASE Brakes *	ASE Engine Performance *	Collision Refinishing and Painting *	
ASE Electrical/Electronics *	ASE Steering and Suspension *	Commercial Driver Prep	
CTE Internship		<a href="#">Apprenticeship</a>	
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.			
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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Automotive Service Technician</li> <li>&gt; Tire Technician</li> <li>&gt; Quick Lube Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Fleet Administrator</li> <li>&gt; Master Technician</li> <li>&gt; Restoration Specialist</li> </ul>	<ul style="list-style-type: none"> <li>&gt; CTE Teacher</li> <li>&gt; OEM Trainer</li> <li>&gt; Technical Researcher and Developer</li> <li>&gt; Technical Salesperson</li> </ul>

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

### Advice to Students

**“JUST DO IT!** Take the class! Take the work-based learning opportunity! Pick choices that challenge you and scare you a little. Pick something you are passionate about and call on mentors to help you learn. Don't be afraid to fail! You may fail at an individual task, but you will win overall in the end.”

Cooper Chamberlain  
 Future Automotive Technician

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Supply Chain & Transportation

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

### SkillsUSA

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

[SkillsUSA.org](http://SkillsUSA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)





## Career Cluster: Supply Chain & Transportation

### Career Pathway: Aviation

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	Entrepreneurship *	Math 1060 *	Small Business Math *
English 1010	Math 1050 *	Meteorology	
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Aviation Maintenance 1 *	Machining 1 *	UAS: Drones, Intro
Automotive, Intro *	Customer Service *	Supply Chains, Intro	
Aviation History *	Electronics, Intro *	UAS: Design and Maintain	
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass one of the following courses AND one explorer course.			
Aviation Maintenance 2 *	Flight Simulator *	UAS: Remote Pilot Certification	
Aviation Weather *	UAS: Photo and Video		
<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.			
Air Transportation *	Private Pilot *		
Aircraft Systems *	UAS: Capstone		
CTE Internship	<a href="#">Apprenticeship</a>		
POSTSECONDARY: There are many options for education and training beyond high school.			
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.

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> <li>&gt; Aircraft Service Technician</li> <li>&gt; Drone Pilot</li> <li>&gt; Helicopter Maintenance Technician</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Air Traffic Controller</li> <li>&gt; Certified Flight Instructor</li> <li>&gt; Drone Mission Coordinator</li> </ul>	<ul style="list-style-type: none"> <li>&gt; Aircraft Co-pilot and Pilot</li> <li>&gt; CTE Teacher</li> <li>&gt; Drone Design Engineer</li> <li>&gt; Drone GIS Engineer</li> <li>&gt; Flight Engineer</li> </ul>

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

### Advice to Students

“CTE classes are worth it. Sometimes the work is hard but in the end the knowledge and skills that you will have afterwards is great. It is an amazing feeling to take and excel in your CTE classes!”

Ryker Frost  
 Future Mechanical Engineer

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Supply Chain & Transportation

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

### SkillsUSA

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

[SkillsUSA.org](http://SkillsUSA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)





## Career Cluster: Supply Chain & Transportation

### Career Pathway: Diesel

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology		
HIGH SCHOOL		
<b>SUPPORTING COURSES:</b> Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Business Office Specialist *	Math 1050 *	Small Business Math *
English 1010		
<b>EXPLORER COURSES:</b> Choose one or more of the following courses.		
Agricultural Mechanics and Technology 1 *	Customer Service *	Machining 1 *
Automotive, Intro * +	Electronics, Intro *	Supply Chains, Intro
Aviation Maintenance 1 *	Entrepreneurship *	Welding Technician, Entry *
<b>CONCENTRATOR COURSES:</b> To be a concentrator you must pass the following course AND one explorer course.		
ASE Diesel IMMR *		
<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.		
ASE Diesel Brakes	ASE Diesel Engine	Commercial Driver Prep
ASE Diesel Electrical Systems	ASE Diesel Steering and Suspension	
CTE Internship		<a href="#">Apprenticeship</a>
<b>POSTSECONDARY:</b> There are many options for education and training beyond high school.		
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.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Diesel Service Technician > Farm Equipment Mechanic	> Heavy Equipment Maintenance Technician > Heavy Locomotive Technician

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.

### Advice to Students

"Jump in and learn as much as you can. CTE courses are a fantastic resource. Don't be afraid to try something you've never done before, because you'll never learn a new skill if you're always too afraid to try it. Through CTE I have been able to make my education more meaningful."

Zachary Burrows  
 Future Diesel Mechanic

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Supply Chain & Transportation

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

### SkillsUSA

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

[SkillsUSA.org](http://SkillsUSA.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org)  
[SkillsUSA Utah flyer](#)

