




Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Mechanics Systems

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Intro		
HIGH SCHOOL		
SUPPORTING COURSES: 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 *
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Biology-Agricultural Science	Industrial & Agriculture Technology
Agricultural Science 1	Business Communication 1 *	Unmanned Aerial Systems
Agricultural Science and Technology Application *	Business Communication 2	Welding Technician, Entry *
Agricultural Mechanics and Technology 1 +	Business Leadership 1 *	
Automotive, Introduction * +	Construction Trades Foundation * +	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Agricultural Mechanics and Technology 2		
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Agricultural Mechanics, Advanced *	Agricultural Machinery Technology	Welding Technician, Advanced *
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

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

“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, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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

FFA

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

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





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Production Systems

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Agriculture, Intro	
HIGH SCHOOL	
EXPLORER COURSES: 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	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Agricultural Science 2	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
CTE Internship	Apprenticeship
POSTSECONDARY:	
There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Crop Scout > Pesticide Handler/Applicator > Storage and Hygiene Coord.	> Agricultural Engineer Tech. > Sales Representative > Slaughter/Processor	> Agricultural Inspectors > CTE Teacher > Farm/Ranch Manager

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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, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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

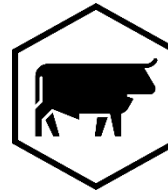
FFA

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Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Animal & Veterinary Science

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Intro		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Agricultural Biotechnology	Business Communication 1 *	
Agricultural Science 1	Business Communication 2	
Agricultural Science and Technology Application *	Equine Science 1 +	
Animal Science 1 +	Business Leadership 1 *	
Aquaculture +	Veterinary Assistant 1 +	
Biology-Agricultural Science		
CONCENTRATOR COURSES: 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	
COMPLETER COURSES: 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	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Artificial Inseminator > Livestock Auctioneer > Shipping Coordinator 	<ul style="list-style-type: none"> > Herdsman > Livestock Buyer > Veterinary Assistant/Technologist and Technician 	<ul style="list-style-type: none"> > Animal Nutrition Specialist > CTE Teacher > Farm/Ranch Manager

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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, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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FFA

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

FFA.org | [UtahFFA.org](#)

[Utah FFA flyer](#)





Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Food Science, Dietetics & Nutrition

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
FCS 6th Grade	
FCS Exploration	
HIGH SCHOOL	
EXPLORER COURSES: Choose one or more of the following courses.	
Food and Nutrition +	
Human Development *	
Medical Anatomy and Physiology *	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Dietetics and Nutrition 1	
COMPLETER COURSES: 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	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Food Protections Manager > Food Inspector Assistant > Food Sanitation Coordinator	> Research and Development Technician	> CTE Teacher > Dietitian/Nutritionist > Food 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

“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, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

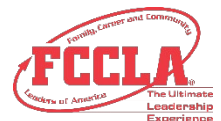
Department of Workforce Services
[Utah Occupational Explorer](#)

FCCLA

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

[FCCLAinc.org](#) | [UtahFCCLA.org](#)

[Utah FCCLA flyer](#)






Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Natural Resource Science

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
Agriculture, Intro	
HIGH SCHOOL	
EXPLORER COURSES: 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	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Natural Resource Science 2 *	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
CTE Internship	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> > Firefighter > Heavy Equipment Operator > Pesticide Handler/Applicator 	<ul style="list-style-type: none"> > Arborist > Fisheries Technician > Forestry Technician

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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 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

Agriculture, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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






Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Plant Science

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Agriculture, Intro		
HIGH SCHOOL		
EXPLORER COURSES: 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	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Floriculture	Landscape Architecture, Intro	Plant and Soil Science 2
Floriculture and Greenhouse Mgmt.	Nursery Operation	Sustainable Urban Agriculture
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Floriculture, Advanced	Greenhouse Management	Landscape Management *
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

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

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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, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

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 | UtahFFA.org

[Utah FFA flyer](#)





Career Cluster: Architecture & Construction

Career Pathway: Architectural & Interior Design

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology	FCS 6th Grade	FCS Exploration
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Entrepreneurship *	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
Business Communication 1 *	Construction Trades Foundation *	Plumbing 1
Architectural Design 1 * +	Digital Media 1 *	Small Business Math *
Carpentry 1 *	Electrician 1 *	Unmanned Aerial Systems
Construction Technology	Interior Design 1 * +	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Architectural Design 2 *	Interior Design 2 *	
COMPLETER COURSES: 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	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Civil Drafter	> Architectural Drafter > Civil Drafter > Photo Stylist	> Architect > Architectural and Engineering Manager > Civil Engineer > Interior Designer

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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

Architecture & Construction

UtahCTE.org: [Fact Sheet](#)

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

FCCLA | TSA

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

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

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



Career Cluster: Architecture & Construction

Career Pathway: Construction & Structural Systems

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	English 1010	Math 1050	
Customer Service *			
EXPLORER COURSES: Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1	Construction Trades Foundation * +	Unmanned Aerial Systems	
Architectural Design 1 * +	Entrepreneurship *	Welding Technician, Entry *	
Construction Management 1 +	Interior Design 1 *	Woods 1 +	
Construction Technology +	Metalworking 1		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Carpentry 1 *	Construction Management 2	Electrician 1 *	Plumbing 1
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
Carpentry 2 *	Construction Management 3	Electrician 2	Plumbing 2
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)			UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Electrical and Electronics Engineering Technician > Pipefitter (Journey Level) > Plumber (Journey Level) 	<ul style="list-style-type: none"> > Carpenter > Electrical Drafter > General Contractor 	<ul style="list-style-type: none"> > CTE Teacher > Civil Engineer > Construction Manager > Electrical Engineer > Environmental Engineer

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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

Architecture & Construction

UtahCTE.org: [Fact Sheet](#)

Department of Workforce Services
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SkillsUSA

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

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

[SkillsUSA Utah flyer](#)





Career Cluster: Arts, Audio/Visual Technology & Communications

Career Pathway: Broadcasting & Digital Media

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Drama	Film Making	Music Theater	Photography
Drawing 1	Marketing 1 *	Painting	
EXPLORER COURSES: Choose one or more of the following courses.			
3D Graphics * +	Computer Science Principles * +	Unmanned Aerial Systems	
3D Print Technology	Digital Media 1 * +	Web Development 1 * +	
AR/VR * +	Digital Media 2 *		
Computer Programming 1 * +	Graphic Print Design 1 * +		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
3D Animation 1 * +	Digital Media, Advanced *	TV Broadcasting 1	
Digital Audio 1	Radio Production 1	Video Production 1 *	
COMPLETER COURSES: 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 Media Capstone	TV Broadcasting 2 *	
Digital Audio 2	Radio Production 2	Video Production 2 *	
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Camera Operator > Designer > Graphic Artist > Videographer Editor 	<ul style="list-style-type: none"> > Audio Technician > Audio Video Equipment Tech. > Broadcast Technician > Production Specialist 	<ul style="list-style-type: none"> > CTE Teacher > Audio Engineer > Motion Graphic Artist > Producer

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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, Audio/Visual Technology & Communications

UtahCTE.org: [Fact Sheet](#)

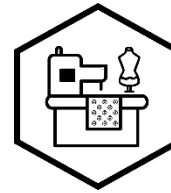
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SkillsUSA

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

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





Career Cluster: Arts, Audio/Visual Technology & Communications

Career Pathway: Fashion Apparel & Textiles

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
FCS 6th Grade		
FCS Exploration		
HIGH SCHOOL		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
Entrepreneurship *	Small Business Math *	
EXPLORER COURSES: 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 * +
CONCENTRATOR COURSES: 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
COMPLETER COURSES: 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	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

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

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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, Audio/Visual Technology & Communications

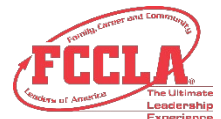
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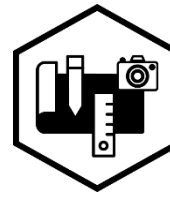
Department of Workforce Services
[Utah Occupational Explorer](#)

FCCLA

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

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





Career Cluster: Arts, Audio/Visual Technology & Communications

Career Pathway: Graphic Design & Communication

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Drawing 1	Painting	Small Business Math *	
English 1010	Math 1050	Photography	
EXPLORER COURSES: Choose one or more of the following courses.			
3D Graphics *	Digital Business Applications *	Digital Media 2 *	Retailing *
Mechanical Design and Engineering 1 *	Digital Illustration *	Entrepreneurship *	Unmanned Aerial Systems
Commercial Art 1 * +	Digital Marketing *	Graphic Print Design 1 *	
Customer Service *	Digital Media 1 * +	Interior Design 1 *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Commercial Art 2 *	Commercial Photography 1 *	Graphic Print Design 2 *	Screen Printing Technology *
COMPLETER COURSES: 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	
Commercial Photography 2	Graphic Design Capstone *		
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)			UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Camera Operator > Commercial Photographer 	<ul style="list-style-type: none"> > Graphic Artist > UX/UI Designer > Web Designer 	<ul style="list-style-type: none"> > 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, Audio/Visual Technology & Communications

UtahCTE.org: [Fact Sheet](#)

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

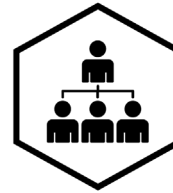
FBLA | SkillsUSA | TSA

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, Finance & Marketing

Career Pathway: Business

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Sales (coming 2025)		Influence and Content Marketing	
		Sports and Outdoor Design 1 *	
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 * +	Business Office Specialist *	Entrepreneurship * +	Small Business Math *
Business Communication 1 * +	Customer Service *	Exploring Business and Marketing	Sports and Recreation Marketing
Business Communication 2	Digital Business Applications *	Marketing 1 * +	Web Development 1 *
Business Law +	Digital Media 1 *	Real Estate	
Business Leadership 1 * +	Economics *	Retailing *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Business Management *		Business Leadership 2	
COMPLETER COURSES: 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		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	<ul style="list-style-type: none"> > Account Representative > Consumer Advocate > Dispute Resolution Analyst 	<ul style="list-style-type: none"> > Budget Analyst > CTE Teacher > Credit Counselor > 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

“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, Finance & Marketing

UtahCTE.org: [Fact Sheet](#)
 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](#) | [UtahDECA.org](#) | [Utah DECA flyer](#)
[FBLA-PBL.org](#) | [Utah-FBLA-PBL.org](#) | [Utah FBLA flyer](#)





Career Cluster: Business, Finance & Marketing

Career Pathway: Finance

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
SUPPORTING COURSE: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Management *		General Financial Literacy	
Digital Marketing *		International Sales	
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 * +	Business Law +	Entrepreneurship *	Retailing *
Business Communication 1 *	Customer Service *	Exploring Business and Marketing	Small Business Math *
Business Communication 2	Digital Business Applications *	Marketing 1 *	Sports and Recreation Marketing
Business Office Specialist *	Economics * +	Real Estate	Web Development 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Accounting 2 *	Accounting, Advanced	Investing and Wealth Management	
COMPLETER COURSES: 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		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	N/A	<ul style="list-style-type: none"> > 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 Business, Finance & Marketing

UtahCTE.org: [Fact Sheet](#)
 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](#) | [Utah-FBLA-PBL.org](#)
[Utah FBLA flyer](#)





Career Cluster: Business, Finance & Marketing

Career Pathway: Marketing

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
SUPPORTING COURSE: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Management *	Fashion Design Merchandising	Web Development 2	
Business Sales	Fashion Merchandising, Advanced		
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 *	Customer Service *	Exploring Business and Marketing	Sports and Recreation Marketing +
Business Communication 1 *	Digital Business Applications *	Marketing 1 * +	Web Development 1 *
Business Communication 2 +	Digital Media 1 *	Real Estate	
Business Law +	Economics *	Retailing *	
Business Office Specialist *	Entrepreneurship * +	Small Business Math*	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Digital Marketing *		Influence and Content Marketing	
COMPLETER COURSES: 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		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	N/A	<ul style="list-style-type: none"> > Art Director > CTE Teacher > Editor > Graphic 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

"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 Business, Finance & Marketing

UtahCTE.org: [Fact Sheet](#)
 Department of Workforce Services
[Utah Occupational Explorer](#)

DECA

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

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





Career Cluster: Computer Science & Information 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			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Current Issues	Law Enforcement *	Secondary Math 2	Secondary Math 3
EXPLORER COURSES: Choose one or more of the following courses.			
AP Computer Science Principles	Data Science	Network Fundamentals *	
Computer Programming 1 *	Exploring Computer Science	Math 1050	
Computer Science Principles *	Information Technology, Intro *	Web Development 1 *	
Database Development *	Linux Fundamentals *		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Principles of Cyber Defense and Ethics *			
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
Cyber Forensics *			
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Computer Technician > Cybersecurity Operations > Security Specialist	> Computer Network Support > Cybersecurity Technical Writer > Security Architect > Vulnerability Analysis	> 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

Computer Science & Information Technology

UtahCTE.org: [Fact Sheet](#)

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

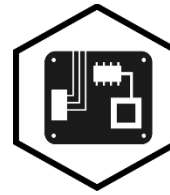
FBLA | SkillsUSA | TSA

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

[FBLA-PBL.org](https://fbla-pbl.org) | [SkillsUSA.org](https://skillsusa.org) | [TSAweb.org](https://tsaweb.org)

[Utah-FBLA-PBL.org](https://utah-fbla-pbl.org) | [UtahSkillsUSA.org](https://utahskillsusa.org) | [UtahTSA.org](https://utahtsa.org)

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



Career Cluster: Computer Science & Information Technology

Career Pathway: Information Technology Systems

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Computer Science Investigations	Python 1, Intro		
Creative Coding	Python 2, Intro		
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Secondary Math 2	Secondary Math 3		
EXPLORER COURSES: Choose one or more of the following courses.			
3D Print Technology	Data Science	Linux Fundamentals *	Robotics Technology
AP Computer Science Principles	Database Development *	Network Fundamentals *	Unmanned Aerial Systems
Computer Programming 1 *	Exploring Computer Science	Math 1050	Unmanned Aerial Systems Lab: Design, Build, Maintain
Computer Science Principles *	Information Technology, Intro *	Robotics 1	Web Development 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.			
Computer Systems 1	Cloud Computing 1	Geographical Information Systems, Intro	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
Computer Systems 2	Cloud Computing 2	Geographic Information Systems Remote Sensing *	
CTE Internship	Apprenticeship		
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Computer Service Technician > Data Center Technician > Service Desk Analyst 	<ul style="list-style-type: none"> > Computer Network Technician > Computer Systems Manager > Database Administrator > IT Coordinator 	<ul style="list-style-type: none"> > CTE Teacher > Computer and Information Systems Manager > Computer Network Architect > Network 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

"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

Computer Science & Information Technology

UtahCTE.org: [Fact Sheet](#)

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: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Computer Science Investigations	Python 1, Intro		
Creative Coding	Python 2, Intro		
Digital Literacy			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Leadership 1 *	Physics	Secondary Math 2	Secondary Math 3
EXPLORER COURSES: Choose one or more of the following courses.			
3D Print Technology	Exploring Computer Science	Robotics Technology	
AP Computer Science Principles	Information Technology, Intro	Unmanned Aerial Systems	
Computer Programming 1 *	Math 1050	Unmanned Aerial Systems Lab: Design, Build, Maintain	
Computer Science Principles *	Mobile Development Fundamentals	Web Development 1	
Data Science	Robotics 1		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Computer Programming 2 *	Database Development *	Game Development Fundamentals 1	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
AP Computer Science	Computer Programming, Advanced *		
Algorithms and Data Structures *	Game Development Fundamentals 2		
CTE Internship	Apprenticeship		
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	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

Computer Science & Information Technology

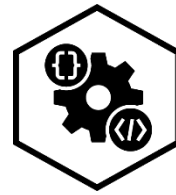
UtahCTE.org: [Fact Sheet](#)

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](https://fbla-pbl.org) | [SkillsUSA.org](https://skillsusa.org) | [TSAweb.org](https://tsaweb.org)
[Utah-FBLA-PBL.org](https://utah-fbla-pbl.org) | [UtahSkillsUSA.org](https://utahskillsusa.org) | [UtahTSA.org](https://utahtsa.org)
[Utah FBLA flyer](#) | [SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)



Career Cluster: Computer Science & Information Technology


Career Pathway: Web Development

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Computer Science Investigations	Python 1, Intro		
Creative Coding	Python 2, Intro		
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Leadership 1 *	Secondary Math 2	Secondary Math 3	
EXPLORER COURSES: Choose one or more of the following courses.			
Computer Science Principles *	Digital Media 1 *	Information Technology, Intro *	Web Development 1 *
Computer Programming 1 *	Entrepreneurship *	Marketing 1 *	
Database Development *	Exploring Computer Science	Math 1050	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
UX/UI and Quality Assurances	Web Development 2		
COMPLETER COURSES: 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	Apprenticeship		
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

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

“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

Computer Science & Information Technology

UtahCTE.org: [Fact Sheet](#)

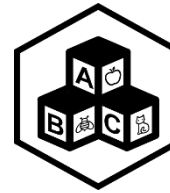
Department of Workforce Services
[Utah Occupational Explorer](#)

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 & Training

Career Pathway: Pre-K: Early Childhood Education

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
FCS 6th Grade	
FCS Exploration	
HIGH SCHOOL	
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)	
Business Office Specialist *	Entrepreneurship *
EXPLORER COURSES: Choose one or more of the following courses.	
Child Development	
Early Childhood Education 1 * +	
Food and Nutrition	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
Early Childhood Education 2 *	
COMPLETER COURSES: 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	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	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 & Training

UtahCTE.org: [Fact Sheet](#)

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.

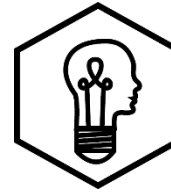
[FCCLAinc.org](https://fccla.org) | [UtahFCCLA.org](https://utahfccla.org)

[Utah FCCLA flyer](#)

[EducatorsRising.org](https://educatorsrising.org)

[Utah Educators Rising flyer](#)






Career Cluster: Education & Training

Career Pathway: K-12: Teaching as a Profession

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Digital Literacy		
HIGH SCHOOL		
SUPPORTING COURSES: 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 *		
EXPLORER COURSES: Choose one or more of the following courses.		
Business Communication 1 *	Human Development *	Math 1050
English 1010	Math 1030	Teaching as a Profession +
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Aspiring Educators *		
COMPLETER COURSES: 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 (coming SY 26)	
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: uthe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	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 & Training

UtahCTE.org: [Fact Sheet](#)

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](https://educatorsrising.org)
[Utah Educators Rising flyer](#)





Career Cluster: Engineering & Technology

Career Pathway: Engineering

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

* concurrent enrollment course + recommended explorer course

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

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

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

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. Ten years down the road you will not regret the choice of enrolling in a CTE class."

Ashley Zolnik
 Future Manufacturing Engineer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Engineering & Technology

UtahCTE.org: [Fact Sheet](#)

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

TSA

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

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





Career Cluster: Health Science


Career Pathway: Health Science

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Health Science			
HIGH SCHOOL			
EXPLORER COURSES: 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
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Biotechnology *	IB Sports Exercise & Health Science SL 1	Medical Forensics *	
Emergency Medical Response *	IB Sports Exercise & Health Science SL 2	Physical Therapy, Intro	
Exercise Science/Sports Medicine *	Medical Anatomy and Physiology *		
COMPLETER COURSES: 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 & Health Science HL 2	Pharmacy Technician **	
Emergency Medical Technician * #	Medical Anatomy and Physiology, Advanced	Surgical Technician **	
Health Science Capstone *	Medical Assistant #		
IB Sports Exercise & Health Science HL 1	Nurse Assistant (CNA) * #		
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course # 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"> > Certified Nurse Assistant > Clinical Lab Assistant > Emergency Medical Technician > Medical Assistant 	<ul style="list-style-type: none"> > Dental Hygienist > Occupational Therapy Assistant > Medical Laboratory Scientist > Registered Nurse (RN) 	<ul style="list-style-type: none"> > CTE Teacher > Forensic Science Technician > Microbiologist

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

Health Science

UtahCTE.org: [Fact Sheet](#)

Department of Workforce Services

[Utah Occupational Explorer](#)

HOSA

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

HOSA.org | UTHOSA.wordpress.com

[Utah HOSA flyer](#)






Career Cluster: Hospitality & Tourism

Career Pathway: Culinary Arts

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
FCS 6th Grade			
FCS Exploration			
HIGH SCHOOL			
SUPPORTING COURSES: 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 *
EXPLORER COURSES: Choose one or more of the following courses.			
Customer Service *			
Food and Nutrition			
Culinary 1 * +			
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Culinary 2		ProStart® 1 +	
COMPLETER COURSES: 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		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)			UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		N/A	<ul style="list-style-type: none"> > Baker/Pastry Chef > Sous Chef > Restaurant 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

“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 & Tourism

UtahCTE.org: [Fact Sheet](#)

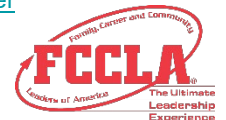
Department of Workforce Services
[Utah Occupational Explorer](#)

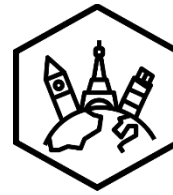
FCCLA

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

[FCCLAinc.org](https://fccla.org) | UtahFCCLA.org

[Utah FCCLA flyer](#)






Career Cluster: Hospitality & Tourism

Career Pathway: Hospitality & Tourism

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy		Word Processing	
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Management *	Fashion Design Merchandising	Influence and Content Marketing	
Digital Marketing *	Fashion Merchandising, Advanced	Sports and Outdoor Design 1 *	
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 *	Business Leadership 1 *	Digital Media 1 *	Retailing *
Baking and Pastry	Business Office Specialist *	Economics *	Small Business Math *
Business Communication 1 *	Culinary 1 * +	Entrepreneurship * +	Sports and Recreation Marketing
Business Communication 2	Customer Service * +	Exploring Business and Marketing	Web Development 1 *
Business Law +	Digital Business Applications *	Marketing 1 * +	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Event Planning and Management		Hospitality and Tourism *	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
Business and Marketing Capstone			
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	N/A	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 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 & Tourism

UtahCTE.org: [Fact Sheet](#)

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






Career Cluster: Human Services

Career Pathway: Family & Human Services

JUNIOR HIGH / MIDDLE SCHOOL	
College and Career Awareness	
HIGH SCHOOL	
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)	
Business Leadership 1 *	Sociology
Medical Terminology *	Small Business Math *
EXPLORER COURSES: Choose one or more of the following courses.	
Behavioral Health, Intro +	Human Development *
Health Science, Intro	Psychology
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.	
Individual and Family Relationships *	Personal and Family Finance *
COMPLETER COURSES: 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	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<ul style="list-style-type: none"> > Autism Technician > Community Health Worker > Job Coach > Life Coach > Peer Support Specialist > Registered Behavior Tech. 	<ul style="list-style-type: none"> > Alcohol & Drug Counselor > Community/Social Service Assistant > Psychiatric Technician > Licensed Vocational Nurse

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

Human Services

UtahCTE.org: [Fact Sheet](#)

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](#) | [UtahFCCLA.org](#)
[Utah FCCLA flyer](#)

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




Career Cluster: Human Services

Career Pathway: Personal Care Services

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
HIGH SCHOOL			
SUPPORTING COURSES: 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 *	
EXPLORER COURSES: Choose one or more of the following courses.			
Business Leadership 1 *	Customer Service *	Marketing 1 *	Small Business Math *
Business Office Specialist *	Entrepreneurship *	Retailing *	
CONCENTRATOR COURSES: 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 *	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.			
Cosmetology * #			
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course # 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

Human Services

UtahCTE.org: [Fact Sheet](#)

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](#) | [UtahSkillsUSA.org](#)

[SkillsUSA Utah flyer](#)





Career Cluster: Law, Public Safety, Corrections & Security

Career Pathway: Protective Services

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Law *	Cyber Forensics *	Emergency Medical Technician *	Principles of Cyber Defense and Ethics
Commercial Photography 1 *	Emergency Medical Response *	Medical Forensics	
EXPLORER COURSES: Choose one or more of the following courses.			
Behavioral Health, Intro +	Exploring Computer Science	Information Technology, Intro +	
Business Leadership 1 *	Fire Science, Introduction	Law Enforcement *	
Criminal Justice, Intro *	Health Science, Intro	Unmanned Aerial Systems	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Corrections *	Fire Science, Safety and Survival		
Criminal Law *	Fire Science, Fire Behavior and Combustion		
COMPLETER COURSES: 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	Apprenticeship		
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Firefighter > First-Line Supervisor of Fire Fighting and Prevention Workers	N/A	> CTE Teacher > Criminal Justice and Law Enforcement Teachers, postsecondary

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

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

Student Testimonial

“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

Law, Public Safety, Corrections & Security

UtahCTE.org: [Fact Sheet](#)
 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 | UTHOSA.wordpress.com
[Utah HOSA flyer](#)
SkillsUSA.org | UtahSkillsUSA.org
[SkillsUSA Utah flyer](#)



Career Cluster: Manufacturing

Career Pathway: Manufacturing & Production

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

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Production Technician	N/A	> CTE Teacher > Manufacturing 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

"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

Manufacturing

UtahCTE.org: [Fact Sheet](#)
 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](#) | [TSAweb.org](#)
[UtahSkillsUSA.org](#) | [UtahTSA.org](#)
[SkillsUSA Utah flyer](#) | [Utah TSA flyer](#)





Career Cluster: Manufacturing

Career Pathway: Welding & Machining

JUNIOR HIGH / MIDDLE SCHOOL		
College and Career Awareness		
Exploring Technology		
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Machining 1 *	Sheet Metal	
Metal Working 1	Welding Technician, Entry *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Machining 2 *		
Welding Technician, Intermediate *		
COMPLETER COURSES: 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	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Tool and Die Maker > Tool Maker > Welder	> Machine Tool Technician > Welding Technician	> CTE Teacher > Machine Tool Engineer > Welding 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

“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 Welder

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Manufacturing

UtahCTE.org: [Fact Sheet](#)

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](#) | [SkillsUSA.org](#)

[UtahFFA.org](#) | [UtahSkillsUSA.org](#)

[Utah FFA flyer](#) | [SkillsUSA Utah flyer](#)





Career Cluster: Transportation, Distribution & Logistics

Career Pathway: Automotive

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	Math 1050		
English 1010	Small Business Math *		
EXPLORER COURSES: Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Bicycle Repair Training	Electronics 1 *	Transportation Technology
Automotive, Introduction * +	Collision Non-Structural Repair * +	Machining 1 *	Welding Technician, Entry *
Aviation Maintenance 1	Customer Service *	Small Engine Repair	
Basic Automotive Collision Repair	Entrepreneurship *	Supply Chains, Introduction	
CONCENTRATOR COURSES: 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 *	
ASE Engine MLR *	Electric Vehicle Safety and Technology		
COMPLETER COURSES: 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 *	Professional Driver	
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

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

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! 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
Transportation, Distribution & Logistics

UtahCTE.org: [Fact Sheet](#)
 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 | UtahSkillsUSA.org
[SkillsUSA Utah flyer](#)





Career Cluster: Transportation, Distribution & Logistics


Career Pathway: Aviation

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	Entrepreneurship *	Math 1060	Small Business Math *
English 1010	Math 1050	Meteorology	
EXPLORER COURSES: Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Aviation Maintenance 1	Machining 1 *	Unmanned Aerial Systems Lab: Design, Build, and Maintain
Automotive, Introduction *	Customer Service *	Supply Chains, Introduction	
Aviation History *	Electronics 1 *	Unmanned Aerial Systems	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Aviation Maintenance 2	Aviation Weather	Flight Simulator *	
Unmanned Aerial Systems Lab: Intermediate Flight		Unmanned Aerial Systems Lab: Exploration of Industry Applications	
COMPLETER COURSES: 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 *		Unmanned Aerial Systems Capstone	
CTE Internship		Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)			UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

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

“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

Transportation, Distribution & Logistics

UtahCTE.org: [Fact Sheet](#)

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 | UtahSkillsUSA.org

[SkillsUSA Utah flyer](#)






Career Cluster: Transportation, Distribution & Logistics

Career Pathway: Diesel

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Exploring Technology			
HIGH SCHOOL			
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)			
Business Office Specialist *	Math 1050	Small Business Math *	
English 1010			
EXPLORER COURSES: Choose one or more of the following courses.			
Agricultural Mechanics and Technology 1 *	Customer Service *	Machining 1 *	Welding Technician, Entry *
Automotive, Introduction * +	Electronics 1 *	Supply Chains, Introduction	
Aviation Maintenance 1	Entrepreneurship *	Transportation Technology	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.			
ASE Diesel IMMR			
COMPLETER COURSES: 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	Professional Driver	
ASE Diesel Electrical Systems	ASE Diesel Steering and Suspension		
CTE Internship	Apprenticeship		
POSTSECONDARY: There are many options for education and training beyond high school.			
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide	

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Diesel Service Technician > Farm Equipment Mechanic 	<ul style="list-style-type: none"> > Heavy Equipment Maintenance Technician > Heavy Locomotive Technician 	<ul style="list-style-type: none"> > CTE Teacher > Fleet Administrator > Logistics Operation Manager

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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

“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

Transportation, Distribution & Logistics

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SkillsUSA.org | UtahSkillsUSA.org

[SkillsUSA Utah flyer](#)

