




Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Mechanics 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 *
Agricultural Mechanics and Technology 1 +	Industrial & Agriculture Technology
Biology-Agricultural Science	
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	
CTE Internship	Apprenticeship
POSTSECONDARY:	
There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Hydraulic Technician > Maintenance Service Technician > Welder	> Agricultural Engineer Technician > Diesel Mechanic > Equipment Dealer Technician	> Agricultural Engineer > CTE Teacher > 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.

Student Testimonial

"I enjoy FFA because it does include mechanical things and it pushed me to learn new skills that I didn't have before. Through participation in FFA I have found that I like the puzzle and complexity of engines. FFA has helped to shape my future goals."

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.			
	1-2 Year 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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Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

Student Testimonial

“My CTE classes and my leadership experience in 4-H and FFA have laid a strong foundation on which I can build upon. I have learned crucial values, including hard work, dedication, and responsibility. I plan to go to college to complete a teaching degree.”

Kaitlin Hallam
 Future Agricultural Teacher

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Agriculture, Food & Natural Resources

UtahCTE.org: [Fact Sheet](#)

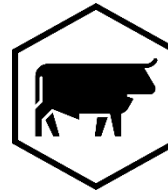
Department of Workforce Services
[Utah Occupational Explorer](#)

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[Utah FFA flyer](#)





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.

	1-2 Year 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

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

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

Student Testimonial

"I took many CTE classes in high school that were beneficial in preparation for my college education to become a veterinary technician. I have a passion for animals and their well-being and want to pursue a career in agriculture."

Karlie Ault
 Future Veterinary 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 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	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.			
	1-2 Year 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.

Student Testimonial

"I'm extremely grateful for my CTE classes and teachers. Without these classes I don't think I ever would have given a thought to going into food science and dietetics."

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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Firefighter > Heavy Equipment Operator > Pesticide Handler/Applicator	> Arborist > Fisheries Technician > Forestry Technician

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Student Testimonial

“Once I have completed my schooling, I plan to become a DNR officer. I have a great love for the outdoors. In each of my CTE courses I learned that with hard work I can achieve anything.”

Paige Brown
 Future Division of Natural Resources (DNR) Officer

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 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.			
	1-2 Year 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 	<ul style="list-style-type: none"> > CTE Teacher > Crop Advisor > Landscape Designer/Architect

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

Student Testimonial

"I took my first agriculture class, which everyone assumes is strictly about farm animals, and it introduced me to plant biology. The classes took place mostly in the school greenhouse, where I learned to grow plants and flowers from seeds. This is where I found my passion."

Madysen Smith
 Future Plant Scientist

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 Design (CAD)

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)	
Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.	
CAD Architectural Design 1 * +	Construction Trades Foundation *
Carpentry 1 *	Electrician 1 *
Construction Technology	Plumbing 1
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
CAD Architectural 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.	
CAD Architectural Design 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.

	1-2 Year Certificate > Civil Drafter	2-Year Associate Degree > Architectural Drafter > Civil Drafter	4-Year Bachelor's Degree > Architect > Architectural and Engineering Manager > Civil Engineer
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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

“As a freshman in high school, I was unsure what career path I should focus on. Because of this, I ended up taking a wide variety of courses and finding a passion in designing house plans using the computer. I have chosen to focus on structural and architectural design technology.”

Jaxon Schiess
 Future Architect

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Architecture & Construction

UtahCTE.org: [Fact Sheet](#)

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

TSA

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

[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)			
English 1010	Entrepreneurship *	Math 1050	
EXPLORER COURSES: Choose one or more of the following courses.			
CAD Architectural Design 1 * +	Construction Trades Foundations * +		
Construction Management 1 +	Woods 1 +		
Construction Technology +			
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.

	1-2 Year 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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Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.

Student Testimonial

The CTE classes I have taken have led me to see that I am interested in a career in construction. With the CTE classes I have learned many skills needed to go farther in my career. I have learned that I like framing, shingling . . . Once I finish my schooling, I will be able to get a job that I will enjoy and that I can improve throughout my life."

Tyler Stettler
 Future Construction Manager

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Architecture & Construction

UtahCTE.org: [Fact Sheet](#)

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 flyer](#)






Career Cluster: Architecture & Construction

Career Pathway: Interior Design

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 *	
EXPLORER COURSES: Choose one or more of the following courses.	
Business Communication 1 *	Interior Design 1 * +
CAD Architectural Design 1 *	Marketing 1 *
Digital Media 1 *	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.	
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.	
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	> Photo Stylist	> Architect > CTE Teacher > Interior Designer > Sales 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.

Student Testimonial

"A CTE internship offered me the chance to work outside of the classroom for on-the-job training and opportunities to help me better understand what I want to do after graduation."

Jacob Gurney
 Future Interior Designer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Architecture & Construction

UtahCTE.org: [Fact Sheet](#)

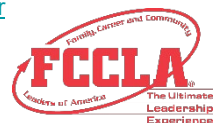
Department of Workforce Services
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FCCLA

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

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

[Utah FCCLA 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 * +	Web Development 1 * +	
AR/VR * +	Digital Media 1 * +		
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 2 *	Video Production 1 *	
Digital Audio 1	TV Broadcasting 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, Advanced *	Video Production 2 *	
Digital Audio 2	TV Broadcasting 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.			
	1-2 Year Certificate > Camera Operator > Designer > Graphic Artist > Videographer Editor	2-Year Associate Degree > Audio Technician > Audio Video Equipment Tech. > Broadcast Technician > Production Specialist	4-Year Bachelor's Degree > CTE Teacher > Audio Engineer > Motion Graphic Artist > Producer

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

Student Testimonial

"I want to go into film production, CTE classes helped me by giving me experience in camera work, production software, editing, and setting up different kinds of videos. I learned how to manage project-based work, collaborate with a team, and follow a strict timeline."

Marcus Croston
 Future Film Production Technician

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Arts, Audio/Visual Technology & Communications

UtahCTE.org: [Fact Sheet](#)

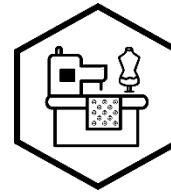
Department of Workforce Services
[Utah Occupational Explorer](#)

SkillsUSA

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

SkillsUSA.org | UtahSkillsUSA.org
[SkillsUSA 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 *		
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> 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.

Student Testimonial

"The information I learned from the CTE classes provided me with a knowledge base about the theories and application of fashion design. I found it exciting and motivating to be able to take classes in high school that fulfilled my passions."

Tyllar Hubbard
 Future Fashion Designer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Arts, Audio/Visual Technology & Communications

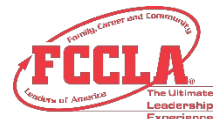
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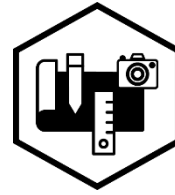
Department of Workforce Services
[Utah Occupational Explorer](#)

FCCLA

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

[FCCLAinc.org](https://fcclaainc.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	
Entrepreneurship *	Photography	
EXPLORER COURSES: Choose one or more of the following courses.		
Commercial Art 1 * +	Digital Media 1 * +	Graphic Print Design 1 *
CONCENTRATOR COURSES: 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 1 *	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 2	Graphic Print Design 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.			
	1-2 Year 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.

Student Testimonial

“The **graphic design course** I took my sophomore year became my ideal career choice. Graphic design helped me develop many skills that improved my communication. I feel more confident entering college since I have taken CTE classes.”

Hideki Irei
 Future Graphic Designer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Arts, Audio/Visual Technology & Communications

UtahCTE.org: [Fact Sheet](#)

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

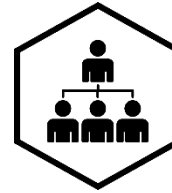
FBLA | SkillsUSA | TSA

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 flyer](#)

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



Career Cluster: Business, Finance & Marketing


Career Pathway: Business Administration

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Digital Literacy	Exploring Business and Marketing	Word Processing	
HIGH SCHOOL			
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 * +	Business Leadership 1 * +	Economics *	Sports and Entertainment Marketing
Business Communication 1 * +	Business Math and Personal Finance *	Entrepreneurship * +	Web Development 1 *
Business Communication 2	Customer Service *	Marketing 1 * +	
Business Law +	Digital Media 1 *	Real Estate	
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.

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	> Account Representative > Consumer Advocate > Dispute Resolution Analyst	> 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.

Student Testimonial

“Through my CTE classes in high school, I’ve discovered I really enjoy floriculture and greenhouse management, computer technology, and the customer service industry. Because of these passions, I would like to pursue a career in business administration. The CTE classes I was involved in helped prepare me for success.”

Kaylee Marchant
 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 Administration 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: Business Information Management

JUNIOR HIGH / MIDDLE SCHOOL			
College and Career Awareness			
Creative Coding	Exploring Business and Marketing		
Digital Literacy	Word Processing		
HIGH SCHOOL			
EXPLORER COURSES: Choose one or more of the following courses.			
Accounting 1 *	Business Law +	Database Development * +	Entrepreneurship *
Business Communication 1 * +	Business Math and Personal Finance *	Digital Media 1 *	Information Technology, Intro +
Business Communication 2	Customer Service * +	Economics *	Web Development 1 *
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Business Office Specialist *			
Digital Business Applications *			
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A		> Desktop Publisher > Legal Assistant/Paralegal > Web 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.

Student Testimonial

"The 14 CTE classes I took in high school played a role in preparing me for life after high school. The Entrepreneurship class taught me many skills on how to run my own business. This was my first business class I took in high school and it helped pave the way for future classes and learning."

Reagan Bassett
 Future Business Owner

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 Business Information Management Career Pathway.

[FBLA-PBL.org](https://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	Exploring Business and Marketing	Word Processing
HIGH SCHOOL		
SUPPORTING COURSE: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)		
General Financial Literacy		
EXPLORER COURSES: Choose one or more of the following courses.		
Accounting 1 * +	Business Math and Personal Finance *	Marketing 1 *
Business Communication 1 *	Customer Service *	Real Estate
Business Communication 2	Economics * +	Sports and Entertainment Marketing
Business Law +	Entrepreneurship *	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.

	1-2 Year 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.

Student Testimonial

“The CTE courses I have taken have been far from simple, actually difficult and challenging at times. They have taught me that with patience hard work, dedication, perseverance, and a smile anything is possible. I will use the skills I have acquired to make sure I perfect these qualities and become as elite as possible.”

Mickell Morgan
 Future Accountant

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](https://fbla-pbl.org) | [Utah-FBLA-PBL.org](https://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	Exploring Business and Marketing	Word Processing
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Accounting 1 *	Customer Service *	Real Estate
Business Communication 1 *	Digital Media 1 *	Sports and Entertainment Marketing +
Business Communication 2 +	Economics *	Web Development 1 *
Business Law +	Entrepreneurship * +	
Business Math and Personal Finance *	Marketing 1 * +	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Digital Marketing *		
Retailing *		
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		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.

Student Testimonial

“CTE courses give students many options for different careers, and they are able to try so many different things without having to declare a major or pay thousands of dollars for these types of courses in college.”

Emma Greer
 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](https://deca.org) | [UtahDECA.org](https://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	Math 1050	Secondary Math 3
Law Enforcement *	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
AP Computer Science Principles	Database Development *	Linux Fundamentals *
Computer Programming 1 *	Exploring Computer Science	Network Fundamentals *
Computer Science Principles *	Information Technology, Intro *	Web Development 1 *
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.

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Computer Technician > Cybersecurity Operations > Security Specialist 	<ul style="list-style-type: none"> > Computer Network Support > Cybersecurity Technical Writer > Security Architect > Vulnerability Analysis 	<ul style="list-style-type: none"> > 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.

Student Testimonial

"I have developed so many skills and have acquired so much knowledge needed for a computer programming career. Learning the basics of coding at an early age will help me to have a strong foundation. I will be able to excel in advanced programming and master difficult concepts with much more ease."

Shawn Allen
 Future Computer Programmer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: [Fact Sheet](#)

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

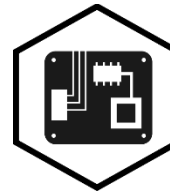
FBLA | SkillsUSA | TSA

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

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

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

[Utah FBLA flyer](#) | [SkillsUSA 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)		
Math 1050	Secondary Math 2	Secondary Math 3
EXPLORER COURSES: Choose one or more of the following courses.		
AP Computer Science Principles	Exploring Computer Science	Robotics 1
Computer Programming 1 *	Information Technology, Intro *	Robotics Technology
Computer Science Principles *	Linux Fundamentals *	Web Development 1 *
Database Development *	Network Fundamentals *	
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Computer Service Technician > Data Center Technician > Service Desk Analyst	> Computer Network Technician > Computer Systems Manager > Database Administrator > IT Coordinator	> 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.

Student Testimonial

"This program helped me earn many industry-level certifications including CompTIA, IT Strata Fundamentals, IC3, Microsoft Technical Associate (MIT), OS Fundamentals, and Security and Academy of Information Technology certifications."

Parker Kingsford
 Future Computer Engineer

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 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 3
Math 1050	Secondary Math 2	
EXPLORER COURSES: Choose one or more of the following courses.		
AP Computer Science Principles	Robotics 1	Robotics Technology
Computer Programming 1 *	Mobile Development Fundamentals	
Computer Science Principles *	Exploring Computer Science	Information Technology, Intro
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.

	1-2 Year 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.

Student Testimonial

“CTE courses have set the course of my life. I was planning on doing something computer related and taking CTE courses have led me to understand what I am confident about, what I enjoy doing, and what possible careers I could go into.”

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



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	World Civilization	
Math 1050	Secondary Math 3	World Geography	
EXPLORER COURSES: Choose one or more of the following courses.			
Computer Science Principles *	Digital Media 1 *	Exploring Computer Science	Web Development 1 *
Database Development *	Entrepreneurship *	Information Technology, Intro *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
		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.			
UX/UI and Quality Assurances		Web Development Projects *	
Web Development, 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.

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Graphic Artist > Web Analyst > Web Technician	> Web Developer	> 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.

Student Testimonial

“My goal is to go to Utah Valley University and obtain an associate degree in computer technology with the focus on Web design. CTE courses have provided experience in several areas that would not be available without CTE.”

Zachary Crocker
 Future Web Developer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: [Fact Sheet](#)

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

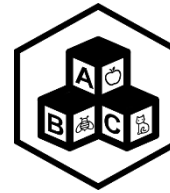
FBLA | SkillsUSA | TSA

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 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.			
	1-2 Year Certificate > Teacher Assistant	2-Year Associate Degree > Education Administrator, Preschool > Preschool Teacher Assistant	4-Year Bachelor's Degree > 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.

Student Testimonial

"I want to further my education so that one day I can open a preschool of my own and help children learn to love learning. I love helping little kids grow and encouraging their curiosity to sprout. I am grateful for the CTE courses directing me towards my future profession."

Mary Tess Given
 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.

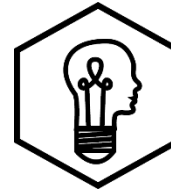
[FCCLAINC.org](https://fcclainc.org) | UtahFCCLA.org

[Utah FCCLA flyer](#)

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 *	Teaching as a Profession 1 +
English 1010	Math 1050	
CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.		
Teaching as a Profession 2		
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Teaching as a Profession 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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Teacher Assistant/ Para Professional	> Preschool Teacher	> CTE Teacher > Elementary School Teacher > Kindergarten Teacher > Middle School Teacher > Secondary School Teacher > Special Education 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.

Student Testimonial

"I intend to become certified and start a career as an elementary school teacher in the state of Utah, where I can have a positive impact on children and families. My CTE courses helped to prepare me for college by helping me earn college credit while still in high school."

Raegen Knudsen
 Future Elementary Education 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.		
CAD Architectural Design 1 *	Engineering Principles 1 +	Plastics 1
CAD Mechanical Design 1 *	Engineering Technology	Robotics 1 +
CAM Automated Manufacturing	Machining 1 *	Robotics Technology
Composites 1	Manufacturing Principles 1 +	Welding Technician, Entry Level *
Electronics 1 * +	Metalworking 1	Woods 1
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Aerospace Engineering	Electronics 2 *	Materials Science
CAD Mechanical Design 2 *	Engineering Principles 2 *	Robotics 2 *
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
Electronics 3 *	Engineering Capstone	CAD Mechanical Design 3 *
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Machine Operator > Production Technician 	<ul style="list-style-type: none"> > Electro-Mechanical Technicians > Electronics Equipment Assembler 	<ul style="list-style-type: none"> > Automation Engineer > CTE Teacher > Electrical Engineer > Electronics Drafter

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

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

Student Testimonial

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

Garret Maycock
 Future Manufacturing Engineer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Engineering & Technology

UtahCTE.org: [Fact Sheet](#)

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

TSA

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

[TSAweb.org](https://tsa.org) | [UtahTSA.org](https://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.		
Health Science, Intro	Medical Math	
Human Development *	Medical Terminology *	
Medical Anatomy and Physiology *		
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Biotechnology *	Health Science Capstone *	Medical Forensics *
Dental Assistant	IB Sports Exercise & Health Science SL 1	Nurse Assistant (CNA) *
Emergency Medical Response *	IB Sports Exercise & Health Science SL 2	Pharmacy Technician *
Emergency Medical Technician *	Medical Anatomy and Physiology, Advanced	Physical Therapy, Intro
Exercise Science/Sports Medicine *	Medical Assistant	Surgical Technician *
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.		
IB Sports Exercise & Health Science HL 1	IB Sports Exercise & Health Science HL 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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		> Clinical Lab Technician > Certified Nurse Assistant > Emergency Medical Technician > Medical Assistant	> Clinical Lab Technologist > Dental Hygienist > Occupational Therapy Assistant > Registered Nurse (RN)

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

"The CTE classes I have taken throughout high school have really set me up for success in college and life after high school. Not only did the CTE class Intro to Health Science help me decide on the career I wanted to go into, but it also prepared me for some of the things I might see in the operating room."

Clara Cushing
 Future Surgical Technician

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 *
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.

	1-2 Year 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 	<ul style="list-style-type: none"> > CTE Teacher > Culinary Arts Instructor > Executive Chef

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

“My CTE courses taught me many valuable lessons. In ProStart®, a college-level culinary class, I learned many skills. ProStart® taught me skills that are needed in a modern restaurant. I know I will be using the skills I have learned in my future career and schooling.”

Varen Moe
 Future Food Product Specialist

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Hospitality & Tourism

UtahCTE.org: [Fact Sheet](#)

Department of Workforce Services

[Utah Occupational Explorer](#)

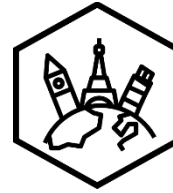
FCCLA

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	Exploring Business and Marketing	Word Processing
HIGH SCHOOL		
EXPLORER COURSES: Choose one or more of the following courses.		
Accounting 1 *	Culinary 1 * +	Entrepreneurship * +
Business Communication 1 *	Customer Service * +	Marketing 1 * +
Business Law +		Web Development 1 *
Business Math and Personal Finance *	Digital Media 1 *	
	Economics *	
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 *	Lodging and Recreation
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	N/A	N/A	<ul style="list-style-type: none"> > CTE Teacher > Marketing Manager > Meeting, Convention, and Event Planner

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

“The CTE courses I took prepared me for my chosen career path. I received knowledge and training in business management and restaurant fundamentals. I would like to open my own restaurant.”

Alexis Kingery
 Future Restaurant Owner

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Hospitality & Tourism

UtahCTE.org: [Fact Sheet](#)

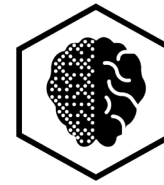
Department of Workforce Services
[Utah Occupational Explorer](#)

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)		
Medical Terminology *	Psychology	Sociology
EXPLORER COURSES: Choose one or more of the following courses.		
Behavioral Health, Intro +		
Health Science, Intro	Human Development *	
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	Community Health	Social Services
CTE Internship	Apprenticeship	
POSTSECONDARY: There are many options for education and training beyond high school.		
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)		UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
		<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.

Student Testimonial

"I have come to love the CTE program because it provides me with the opportunity to find both my strengths and my passions. CTE classes are essential to students, like me, who grew up in less populous areas. CTE is the medium through which students display their talent. CTE classes help mold students into who they want to be."

Andrew Grunander
 Future Healthcare Professional

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](https://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)	
Entrepreneurship *	
EXPLORER COURSES: Choose one or more of the following courses.	
Accounting 1 *	
Business Management *	
Business Math and Personal Finance *	
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 *
Cosmetology *	
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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	<ul style="list-style-type: none"> > Barber > Cosmetologist > Hair Designer > Manicurists and Pedicurists > Skincare Specialist (Esthetician) 	> N/A	> CTE 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.

Student Testimonial

“My high school CTE experiences have set me up for triumph in my life, as well as my college and career pathway. Cosmetology has taught me great interpersonal skills that I never had before. The art of listening, communication, and professionalism are some of the most important skills I have acquired.”

Meadow Lee
 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 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)		
Emergency Medical Response *	Commercial Photography 1 *	
Emergency Medical Technician *	Cyber Forensics *	
Medical Forensics *	Principles of Cyber Defense and Ethics	
EXPLORER COURSES: Choose one or more of the following courses.		
Behavioral Health, Intro +	Health Science, Intro	
Criminal Justice, Intro *	Information Technology, Intro +	
Exploring Computer Science	Law Enforcement *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
Corrections *	Criminal Law *	Fire Science *
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.

	1-2 Year Certificate > Firefighter > First-Line Supervisor of Fire Fighting and Prevention Workers	2-Year Associate Degree N/A	4-Year Bachelor's Degree > CTE Teacher > Criminal Justice and Law Enforcement Teachers, postsecondary
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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

“Firefighting is in my blood. I love being on the scene with my grandfather and learning from him and my fellow firefighters. The pungent smell of smoke really gets me excited to get my career moving. I have never wanted anything more in my life than to be a firefighter.”

Nate Buchanan
 Future Firefighter

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](https://uthosa.wordpress.com)
[Utah HOSA flyer](#)

[SkillsUSA.org](#) | [UtahSkillsUSA.org](https://utahskillsusa.org)
[SkillsUSA 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 +
CAD Mechanical Design 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.			
	1-2 Year Certificate > Production Technician	2-Year Associate Degree N/A	4-Year Bachelor's Degree > 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.

Student Testimonial

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

Garret Maycock
 Future Manufacturing Engineer

LEARN MORE ABOUT OCCUPATIONS AND WAGES

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 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 Level *
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.	
Machining 2 *	
Welding Technician, Intermediate Level *	
COMPLETER COURSES: To be a completer you must pass a concentrator course and enough courses to equal 3.0 credits in this Pathway.	
Non-Destructive Testing *	Welding-Pipe Fitting
Welding-Structural Fitting	Welding Technician, Advanced Level *
CTE Internship	Apprenticeship
POSTSECONDARY: There are many options for education and training beyond high school.	
Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)	UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING			
There are several options for education and training beyond high school, depending on your career goals.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> 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.

Student Testimonial

"I found a love for a career in my welding courses. These courses have shown me that I need to study heavily, work with my team, and be prepared for my future. CTE courses not only teach you skills that are highly useful but introduces you to industries that are in high demand for workers."

Marcus Duran
 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 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)		
Entrepreneurship *		
EXPLORER COURSES: Choose one or more of the following courses.		
Automotive, Introduction * +	Collision Non-Structural Repair * +	Small Engine Repair
Basic Automotive Collision Repair	Electronics 1 *	Welding Technician, Entry Level *
Bicycle Repair Training	Machining 1 *	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.		
ASE Chassis MLR *	Collision Structural Repair	
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.			
	1-2 Year 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.

Student Testimonial

“My overall goal of taking CTE courses was to become an automotive technician. I found my passion during my sophomore year and ever since then I’ve been staying on track with the automotive industry. I took collision and refinishing, and I love it. I found my passion in life and intend to make a full career out of it.”

Tyerell Przybycien
 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](https://www.skillsusa.org) | [UtahSkillsUSA.org](https://www.utahskillsusa.org)
[SkillsUSA 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)			
English 1010	Math 1050	Math 1060	Meteorology
EXPLORER COURSES: Choose one or more of the following courses.			
Aviation History *	Aviation Maintenance 1	Machining 1 *	
Aviation 1	Electronics 1 *	Unmanned Aerial Systems	
CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.			
Aviation 2	Aviation Maintenance 2	Aviation Weather	Flight Simulator *
Unmanned Aerial Systems Lab: Intermediate Flight	Unmanned Aerial Systems Lab: Design, Build, and Maintain	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.			
	1-2 Year 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.

Student Testimonial

"I plan to become a certified flight instructor and use that [credential] to build up my hours until I can get a job with a local airline. I learned everything I know about planes from Private Pilot Ground School [through CTE].

Braden Ottley
 Future Flight Instructor

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 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)			
Entrepreneurship *			
EXPLORER COURSES: Choose one or more of the following courses.			
Automotive, Introduction * +	Machining 1 *		
Electronics 1 *	Welding Technician, Entry Level *		
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 Electrical Systems	ASE Diesel Engine	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.			
	1-2 Year Certificate	2-Year Associate Degree	4-Year Bachelor's Degree
	> Diesel Service Technician > Farm Equipment Mechanic	> Heavy Equipment Maintenance Technician > Heavy Locomotive Technician	> CTE Teacher > Fleet Administrator > Logistics Operation Manager

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Student Testimonial

"I have always known that I wanted to work in mechanics. As a junior in high school, I attended the ASE Engine Performance class at Mountain View High School. Brent Woffinden was my teacher for this course. He showed me what was possible with a career in mechanics. I hope to one day run my own mobile mechanic business."

Jaxon Carter
 Future Diesel Technician

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Transportation, Distribution & Logistics

UtahCTE.org: [Fact Sheet](#)

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

SkillsUSA

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

