## Career Pathway: Agricultural Mechanics Systems

### Career Cluster: Agriculture, Food & Natural Resources

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
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</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
<td></td>
</tr>
<tr>
<td>Agriculture, Introduction</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>EXPLORER COURSES: Choose one or more of the following courses.</td>
<td></td>
</tr>
<tr>
<td>Agricultural Biotechnology</td>
<td>Agricultural Systems Technology 1 + Business Communication 2</td>
</tr>
<tr>
<td>Agricultural Science 1</td>
<td>Biology-Agricultural Science Environmental Technician</td>
</tr>
<tr>
<td>Agricultural Science and Technology Application *</td>
<td>Business Communication 1 * Leadership Principles 1 *</td>
</tr>
</tbody>
</table>

| CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course. |  |
| Agricultural Systems Technology 2 |  |

| COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway. |  |
| Agricultural Mechanics, Advanced * |  |
| Agricultural Machinery Technology |  |

| CTE Internship |  |
| POSTSECONDARY: |  |
| Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities) |  |
| UtahMajors.org: [Majors Guide](http://UtahMajors.org) |  |

* 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.

<table>
<thead>
<tr>
<th>COLLEGE</th>
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<tbody>
<tr>
<td>1-Year Certificate</td>
<td></td>
</tr>
<tr>
<td>&gt; Hydraulic Technician</td>
<td></td>
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<tr>
<td>&gt; Maintenance Service Technician</td>
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<tr>
<td>&gt; Welder</td>
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<tr>
<td>2-Year Assoc. or Tech. Degree</td>
<td></td>
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<tr>
<td>&gt; Agricultural Engineer Technician</td>
<td></td>
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<tr>
<td>&gt; Diesel Mechanic</td>
<td></td>
</tr>
<tr>
<td>&gt; Equipment Dealer Technician</td>
<td></td>
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<tr>
<td>4-Year Bachelor's Degree</td>
<td></td>
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<tr>
<td>&gt; Agricultural Engineer</td>
<td></td>
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<tr>
<td>&gt; CTE Teacher</td>
<td></td>
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<tr>
<td>&gt; Welding Engineer</td>
<td></td>
</tr>
</tbody>
</table>

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 took in high school, such as agricultural systems and technology, animal science, and floriculture, have given me the basic skills, knowledge and abilities to allow me to obtain employment in any of those fields.”

Colton Zilles
Mountain Crest High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Agriculture, Food & Natural Resources**
UtahCTE.org: [Fact Sheet](http://UtahCTE.org)
Utah Department of Workforce Services [Utah Occupational Explorer](http://UtahOccupationalExplorer)

### FFA

is the Career and Technical Student (CTSO) Organization for students in the Agricultural Mechanics Systems Career Pathway.
[FFA.org](http://FFA.org) | [UtahFFA.org](http://UtahFFA.org)
Utah FFA flyer
Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Agricultural Production Systems

JUNIOR HIGH / MIDDLE SCHOOL
College and Career Awareness
Agriculture, Introduction

HIGH SCHOOL
EXPLORER COURSES: Choose one or more of the following courses.
- Agricultural Biotechnology
- Agricultural Science 1 *
- Agricultural Science and Technology Application *
- Biology-Agricultural Science
- Environmental Technician *
- Leadership Principles 1 *

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 enough courses to earn 3.0 credits in this Pathway.
- CTE Internship

POSTSECONDARY:
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-Year Certificate
- Crop Scout
- Pesticide Handler/Applicator
- Storage and Hygiene Coord.

2-Year Assoc. or Tech. Degree
- Agricultural Engineer Tech.
- Sales Representative
- Slaughter/Processor

4-Year Bachelor’s Degree
- Agricultural Inspectors
- CTE Teacher
- Farm/Ranch Manager

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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
Spanish Fork High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES
Agriculture, Food & Natural Resources
UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

FFA is the Career and Technical Student Organization (CTSO) for students in the Agricultural Production Systems Career Pathway.
FFA.org | UtahFFA.org
Utah FFA flyer

Utah Career and Technical Education
Career Pathway Chart
2020-2021 School Year

ADA Compliant October 2020
Revised October 2020
Published October 2020
## Career Cluster: Agriculture, Food & Natural Resources

### Career Pathway: Animal & Veterinary Science

#### JUNIOR HIGH / MIDDLE SCHOOL
- College and Career Awareness
- Agriculture, Introduction

#### HIGH SCHOOL

##### EXPLORER COURSES:
Choose one or more of the following courses.
- Agricultural Biotechnology
- Agricultural Science 1
- Agricultural Science and Technology Application *
- Animal Science 1 +
- Aquaculture +
- Biology-Agricultural Science

##### CONCENTRATOR COURSES:
To be a concentrator you must pass one of the following courses AND one explorer course.
- Animal Science 2 *
- Equine Science 1 +
- Aquaculture +

##### COMPLETER COURSES:
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- CTE Internship

##### POSTSECONDARY:
- Utah System of Higher Education: ushe.edu (Utah's public colleges and universities)
- UtahMajors.org: Majors Guide

* concurrent enrollment course  + recommended explorer course

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### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Artificial Inseminator</td>
<td>&gt; Herdsman</td>
<td>&gt; Animal Nutrition Specialist</td>
</tr>
<tr>
<td>&gt; Livestock Auctioneer</td>
<td>&gt; Livestock Buyer</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; Shipping Coordinator</td>
<td>&gt; Veterinary Assistant/Technologist and Technician</td>
<td>&gt; Farm/Ranch Manager</td>
</tr>
</tbody>
</table>

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

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### 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
American Fork High School

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### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Agriculture, Food & Natural Resources**

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

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### FFA

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

[FFA.org](#) | [UtahFFA.org](#) | [Utah FFA flyer](#)
Career Cluster: Agriculture, Food & Natural Resources

Career Pathway: Food Science, Dietetics & Nutrition

JUNIOR HIGH / MIDDLE SCHOOL

College and Career Awareness

FCS Exploration

HIGH SCHOOL

EXPLORER COURSES: Choose one or more of the following courses.

- Food and Nutrition 1 *
- Human Development *
- Medical Anatomy and Physiology *

CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.

- Food and Nutrition 2

COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

- Dietetics (Course under development. Available school year 2021-2022.)
- Food Science
- Foundations of Nutrition *
- CTE Internship

POSTSECONDARY:

- 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

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</tr>
</thead>
<tbody>
<tr>
<td>&gt; Food Protections Manager</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Food Inspector Assistant</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Food Sanitation Coordinator</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Research and Development Technician</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; CTE Teacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Dietitian/Nutritionist</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Food Scientist</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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Student Testimonial

“Participating in a CTE Internship helped me to experience the reality of being a dietitian. I participated in a number of activities, including recipe construction, consultations, and food preparation.”

Melissa DeFriez
Sky View High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Agriculture, Food & Natural Resources

UtahCTE.org: Fact Sheet
Utah 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.

FCCLAIinc.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, Introduction

**HIGH SCHOOL**

**EXPLORER COURSES:** Choose one or more of the following courses.

- Agricultural Biotechnology
- Agricultural Science 1
- Agricultural Science and Technology Application *
- Aquaculture +
- Biology-Agricultural Science

- Business Communication 1 *
- Business Communication 2
- Leadership Principles 1 *
- Natural Resource Science 1 +

**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 enough courses to earn 3.0 credits in this Pathway.

- CTE Internship

**POSTSECONDARY:**

- Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)
- UtahMajors.org: Majors Guide

* concurrent enrollment course  + recommended explorer course

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**HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING**

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

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<thead>
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<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Firefighter</td>
<td>&gt; Arborist</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; Heavy Equipment Operator</td>
<td>&gt; Fisheries Technician</td>
<td>&gt; Conservation Officer/Scientist</td>
</tr>
<tr>
<td>&gt; Pesticide Handler/Applicator</td>
<td>&gt; Forestry Technician</td>
<td>&gt; Wildlife Biologist</td>
</tr>
</tbody>
</table>

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

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**Student Testimonial**

“I enrolled in all of the CTE courses in the Natural Resource Science Pathway. The courses added depth to my understanding. Summer Ag enhanced my practical knowledge in the field. All of this together helped me along my planned path to reach my personal and occupational goals.”

Cache Bisel
South Summit High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Agriculture, Food & Natural Resources**

UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

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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 Pathway: Plant Science

## Career Cluster: Agriculture, Food & Natural Resources

### Junior High / Middle School
- **College and Career Awareness**
- **Agriculture, Introduction**

### High School

#### Explorer Courses: Choose one or more of the following courses.
- Agricultural Biotechnology
- Agricultural Science 1
- Agricultural Science and Technology Application *
- Leadership Principles 1 *
- Plant and Soil Science 1 *

#### 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
- Agricultural Science 1
- Business Communication 1 *
- Plant and Soil Science 1 *
- Business Communication 2
- Plant and Soil Science 2

#### Completer Courses: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- Greenhouse Management
- Landscape Management *
- CTE Internship

### Postsecondary:
- Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
- UtahMajors.org: [Majors Guide](http://utahmajors.org)

* concurrent enrollment course  + recommended explorer course

## High School to Postsecondary Education and Training

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</tr>
</thead>
<tbody>
<tr>
<td>24 or more</td>
<td>&gt; Crop Scout</td>
<td>&gt; Arborist</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Irrigation Specialist</td>
<td>&gt; Landscape Technician</td>
<td>&gt; Crop Advisor</td>
</tr>
<tr>
<td></td>
<td>&gt; Pesticide Handler/Applicator</td>
<td>&gt; Turf Manager</td>
<td>&gt; Landscape Designer/Architect</td>
</tr>
</tbody>
</table>

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## 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.”

Madyson Smith
Sky View High School

## Learn More About Occupations and Wages

### Agriculture, Food & Natural Resources

UtahCTE.org: [Fact Sheet](http://utahcte.org)

Utah Department of Workforce Services [Utah Occupational Explorer](http://utah.gov)

## FFA

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

[FFA.org](http://ffafoundation.org) | [UtahFFA.org](http://utahffafoundation.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 enough courses to earn 3.0 credits in this Pathway.
- CAD Architectural Design 3 *

- CTE Internship

**POSTSECONDARY:**
- 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**
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<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Civil Drafter</td>
<td>&gt; Architectural Drafter</td>
<td>&gt; Architect</td>
</tr>
<tr>
<td></td>
<td>&gt; Civil Drafter</td>
<td>&gt; Architectural and Engineering Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Civil Engineer</td>
</tr>
</tbody>
</table>

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**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
Wasatch High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Architecture & Construction**
Utah CTE.org: Fact Sheet
Utah 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

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>College and Career Awareness</td>
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<tr>
<td>Construction Technology &amp; Exploring Technology</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)</td>
<td></td>
</tr>
<tr>
<td>English 1010</td>
<td>Entrepreneurship *</td>
</tr>
<tr>
<td>EXPLOSER COURSES: Choose one or more of the following courses.</td>
<td></td>
</tr>
<tr>
<td>Construction Management 1 +</td>
<td>Construction Trades Foundation * +</td>
</tr>
<tr>
<td>Construction Technology +</td>
<td>Woods 1 +</td>
</tr>
<tr>
<td>CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.</td>
<td></td>
</tr>
<tr>
<td>Carpentry 1 *</td>
<td>Construction Management 2</td>
</tr>
<tr>
<td>Carpentry 2 *</td>
<td>Construction Management 3</td>
</tr>
</tbody>
</table>

CTE Internship

POSTSECONDARY:
Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
UtahMajors.org: Majors Guide

* concurrent enrollment course + recommended explorer course

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<tr>
<td>There are several options for education and training beyond high school, depending on your career goals.</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>1-Year Certificate</strong></td>
</tr>
<tr>
<td>&gt; Electrical and Electronics Engineering Technician</td>
</tr>
<tr>
<td>&gt; Pipefitter (Journey Level)</td>
</tr>
<tr>
<td>&gt; Plumber (Journey Level)</td>
</tr>
</tbody>
</table>

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, and now I found out I like doing the finish mud on sheet rock. 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
Murray High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Architecture & Construction**
UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

**SkillsUSA**
is the Career and Technical Student Organization (CTSO) for students in the Construction & Structural Systems Career Pathway.
SkillsUSA.org | UtahSkillsUSA.org
SkillsUSA flyer
### Career Cluster: Architecture & Construction

#### Career Pathway: Interior Design

<table>
<thead>
<tr>
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<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
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</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Entrepreneurship *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th>EXPLORER COURSES: Choose one or more of the following courses.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Business Communication 1 *</td>
</tr>
<tr>
<td></td>
<td>CAD Architectural Design 1 *</td>
</tr>
<tr>
<td></td>
<td>Digital Graphic Arts Intro *</td>
</tr>
<tr>
<td></td>
<td>Interior Design 1 *</td>
</tr>
<tr>
<td></td>
<td>Marketing 1 *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th>CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Interior Design 2 *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
<th>COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Interior Design 3 *</td>
</tr>
<tr>
<td></td>
<td>Sewing Construction and Textiles 3</td>
</tr>
<tr>
<td></td>
<td>CTE Internship</td>
</tr>
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</table>

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<tr>
<th>POSTSECONDARY</th>
<th>Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)</th>
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<tr>
<td></td>
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* concurrent enrollment course    + recommended explorer course

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<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>N/A</td>
<td>&gt; Photo Stylist</td>
<td>&gt; Architect</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Interior Designer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Sales Manager</td>
</tr>
</tbody>
</table>

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

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**Student Testimonial**

“The most influential decision I made during high school was to participate in a CTE Internship. The path towards interior design began with my quick start into the field through my internship. Because my decision was made during high school, I didn’t have to waste thousands of dollars in tuition trying to decide on a major.”

Paige Kirschbaum  
American Fork High School

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**Learn More About Occupations and Wages**

**Architecture & Construction**

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

**FCCLA**

is the Career and Technical Student Organization (CTSO) for students in the Interior Design Career Pathway.  
[FCCLAinc.org](#) | [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)

<table>
<thead>
<tr>
<th>Drama</th>
<th>Film Making</th>
<th>Music Theater</th>
<th>Photography</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drawing 1</td>
<td>Marketing 1 *</td>
<td>Painting</td>
<td></td>
</tr>
</tbody>
</table>

**EXPLORER COURSES:** Choose one or more of the following courses.

<table>
<thead>
<tr>
<th>3D Graphics * +</th>
<th>Computer Science Principles 1 * +</th>
<th>Digital Print Design * +</th>
<th>Screen Printing Technology * +</th>
</tr>
</thead>
<tbody>
<tr>
<td>3D Animation * +</td>
<td>Computer Programming 1 * +</td>
<td>Game Development Fundamentals 1 * +</td>
<td>Web Development 1 * +</td>
</tr>
<tr>
<td>AR/VR * +</td>
<td>Digital Graphic Arts Intro * +</td>
<td>Information and Communications Technology * +</td>
<td></td>
</tr>
</tbody>
</table>

**CONCENTRATOR COURSES:** To be a concentrator you must pass one of the following courses AND one explorer course.

<table>
<thead>
<tr>
<th>Digital Media 1 *</th>
<th>Digital Audio 1</th>
<th>TV Broadcasting 1</th>
<th>Video Production 1 *</th>
</tr>
</thead>
</table>

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

<table>
<thead>
<tr>
<th>Digital Media 2 *</th>
<th>Digital Audio 2</th>
<th>TV Broadcasting 2 *</th>
<th>Video Production 2 *</th>
</tr>
</thead>
</table>

**CTE Internship**

**POSTSECONDARY:**

- 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-Year Certificate**
- Video Editor
- Sound Engineering Technician

**2-Year Associate or Tech. Degree**
- Audio Video Equipment Technician
- Broadcast Technician
- Comm. Equipment Mechanic

**4-Year Bachelor’s Degree**
- Announcer
- Camera Operator
- CTE Teacher

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

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**Student Testimonial**

“The CTE courses have helped me focus, get experience, and gain an understanding of the dedication and work required to obtain my goal. These classes have also helped me make the right choice to continue my education.”

Marian Vega
Box Elder High School

---

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Arts, Audio/Visual Technology & Communications**

UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Occupational Explorer

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**SkillsUSA**

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

SkillsUSA.org | UtahSkillsUSA.org | SkillsUSA flyer
# Career Pathway: Fashion Apparel & Textiles

## Junior High / Middle School
- College and Career Awareness
- 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 Graphic Arts Intro
- 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 enough courses to earn 3.0 credits in this Pathway.
- Textile Technology
- Sewing Construction and Textiles 3
- Fashion Merchandising, Advanced

**CTE Internship**

## Postsecondary
- 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.

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Graphic Designer</td>
<td>&gt; Fashion Design and Merchandising</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Fashion Designer</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Fashion Illustrator</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Textile Scientist</td>
</tr>
</tbody>
</table>

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
Herriman High School

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## Learn More About Occupations and Wages
**Arts, Audio/Visual Technology & Communications**

UtahCTE.org: Fact Sheet

Utah Department of Workforce Services Utah Occupational Explorer

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

FCCLAINC.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
- Entrepreneurship *
- Entrepreneurship +

**EXPLORER COURSES:** Choose one or more of the following courses.

- Commercial Art 1. *
- Digital Graphic Arts Intro *
- Digital Graphic Arts Intro +

**CONCENTRATOR COURSES:** To be a concentrator you must pass one of the following courses AND one explorer course.

- Commercial Art 2 *
- Commercial Photography 1 *
- Production Graphics 1 *

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

- Commercial Art 3
- Commercial Photography 2
- Production Graphics 2

**CTE Internship**

### POSTSECONDARY:

- Utah System of Higher Education: [ushe.edu](http://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.

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<tr>
<th>COLLEGE</th>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>2+ or more</td>
<td>&gt; Commercial Photographer</td>
<td>&gt; Web Developer</td>
<td>&gt; Art Director</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Camera Operator</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Commercial Designer</td>
</tr>
</tbody>
</table>

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

### Student Testimonial

“To reach my goal of becoming a graphic designer and animator, I will need to gain both an education and extensive experience. The CTE classes have given me the preparation and foundation for college that I will need to stay one step ahead in order to succeed.”

Lauren Yancey
Hunter High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Arts, Audio/Visual Technology & Communications**

UtahCTE.org: [Fact Sheet](http://fact.sheet)

**Utah Department of Workforce Services**

[Utah Occupational Explorer](http://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](http://FBLA-PBL.org) | [SkillsUSA.org](http://SkillsUSA.org) | [TSAweb.org](http://TSAweb.org)

[Utah-FBLA-PBL.org](http://Utah-FBLA-PBL.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org) | [UtahTSA.org](http://UtahTSA.org)

[Utah FBLA flyer](http://Utah FBLA flyer) | [SkillsUSA flyer](http://SkillsUSA flyer) | [Utah TSA flyer](http://Utah TSA flyer)
## Career Cluster: Business, Finance & Marketing

### Career Pathway: Accounting & Finance

#### JUNIOR HIGH / MIDDLE SCHOOL
- **College and Career Awareness**

#### HIGH SCHOOL
- **EXPLORER COURSES**: Choose one or more of the following courses.
  - Accounting 1 *
  - Business Communication 1 *
  - Business Communication 2
  - Business Law
  - Business Communication 2
  - Customer Service *
  - Economics *
  - Entrepreneurship *
  - Real Estate
  - Sports and Entertainment Marketing
  - 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

- **COMPLETER COURSES**: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
  - Business and Marketing Capstone

#### POSTSECONDARY:
- Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
- UtahMajors.org: [Majors Guide](http://utahmajors.org)

* concurrent enrollment course  + recommended explorer course

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>&gt; Accountant</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Auditor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Financial Manager</td>
</tr>
</tbody>
</table>

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

#### Student Testimonial
“Because of my CTE Internship, I am going to be more prepared when I go into the field of accounting. I will be able to understand and apply it to real hands-on learning experiences.”

Brayden Austin
Sky View High School

#### LEARN MORE ABOUT OCCUPATIONS AND WAGES
**Business, Finance & Marketing**
- UtahCTE.org: [Fact Sheet](http://utahcte.org)
- Utah Department of Workforce Services
  - [Utah Occupational Explorer](http://utahcareerexplorer.org)

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

[FBLA-PBL.org](http://fbla-pbl.org) | [Utah-FBLA-PBL.org](http://utahfbla-pbl.org)

Utah FBLA flyer
### Career Cluster: Business, Finance & Marketing

#### Career Pathway: Business Administration

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
</tr>
<tr>
<td>Digital Literacy</td>
</tr>
<tr>
<td>Exploring Business and Marketing</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPLORER COURSES: Choose one or more of the following courses.</td>
</tr>
<tr>
<td>Accounting 1 * +</td>
</tr>
<tr>
<td>Business Communication 1 * +</td>
</tr>
<tr>
<td>Business Communication 2</td>
</tr>
<tr>
<td>Business Law +</td>
</tr>
<tr>
<td>CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.</td>
</tr>
<tr>
<td>Business Management *</td>
</tr>
<tr>
<td>Leadership Principles 2</td>
</tr>
<tr>
<td>COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.</td>
</tr>
<tr>
<td>Business and Marketing Capstone</td>
</tr>
<tr>
<td>CTE Internship</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>POSTSECONDARY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)</td>
</tr>
<tr>
<td>UtahMajors.org: Majors Guide</td>
</tr>
</tbody>
</table>

* concurrent enrollment course  + recommended explorer course

### High School to Postsecondary Education and Training

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>&gt; Account Representative</td>
<td>&gt; Budget Analyst</td>
</tr>
<tr>
<td></td>
<td>&gt; Consumer Advocate</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Dispute Resolution Analyst</td>
<td>&gt; Credit Counselor</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Financial Manager</td>
</tr>
</tbody>
</table>

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

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**Student Testimonial**

"Taking Business Management sparked my interest to pursue a business degree. Taking advantage of the CTE program ultimately helped to pinpoint my career trajectory."

Andrew Nadauld
Murray High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Business, Finance & Marketing**

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

**DECA | FBLA | FCCLA**

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
FCCLAinc.org | UtahFCCLA.org | Utah FCCLA flyer

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042003-BH

Revised October 2020
Published October 2020
ADA Compliant October 2020
# Career Pathway: Business Information Management

## Junior High / Middle School
- **College and Career Awareness**
- **Creative Coding**
- **Digital Literacy**
- **Exploring Business and Marketing**
- **Keyboarding**
- **Word Processing**

## High School
### Explorer Courses: Choose one or more of the following courses.
- **Accounting 1** *
- **Business Communication 1** *
- **Business Communication 2**
- **Business Law**
- **Business Math and Personal Finance** *
- **Customer Service** *
- **Database Development** *
- **Digital Graphic Arts Intro** *
- **Entrepreneurship** *
- **Economics** *
- **Entrepreneurship** *
- **Entrepreneurship** *
- **Entrepreneurship** *
- **Entrepreneurship** *
- **Information Technology, Intro** *
- **Information Technology, Intro** *
- **Information Technology, Intro** *
- **Information Technology, Intro** *
- **Information Technology, Intro** *
- **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 enough courses to earn 3.0 credits in this Pathway.
- **Business and Marketing Capstone**
- **CTE Internship**

## Postsecondary:
- Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)
- UtahMajors.org: Majors Guide

* concurrent enrollment course  + recommended explorer course

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**Student Testimonial**

“The [Microsoft Office Specialist] certifications helped me land my current job at Lowe’s Home Improvement. I am the manager there and perform all of the administrative functions.”

Andrew McLay
Murray High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Business, Finance & Marketing**
- UtahCTE.org: Fact Sheet
- Utah 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 | Utah-FBLA-PBL.org
- Utah FBLA flyer
Utah Career and Technical Education
Career Pathway Chart
2020-2021 School Year

Career Cluster: Business, Finance & Marketing

Career Pathway: Marketing

JUNIOR HIGH / MIDDLE SCHOOL
College and Career Awareness
Digital Literacy
Exploring Business and Marketing

HIGH SCHOOL
EXPLORER COURSES: Choose one or more of the following courses.
Accounting 1 *
Business Communication 1 *
Business Communication 2 +
Business Law
Business Math and Personal Finance *

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

CTE Internship

POSTSECONDARY:
Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)
UtahMajors.org: Majors Guide

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 enough courses to earn 3.0 credits in this Pathway.
Business and Marketing Capstone
CTE Internship

1-Year 2-Year 4-Year
Certificate Assoc. or Tech. Degree Bachelor's Degree
N/A N/A
> Art Director
> CTE Teacher
> Editor
> Graphic Designer

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

Student Testimonial
“The business and marketing courses I have taken in high school have really influenced me in the direction I would like to go for my future education and career.”
Rory James Pollard
Fremont High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES
Business, Finance & Marketing
UtahCTE.org: Fact Sheet
Utah Department of Workforce
Utah Occupational Explorer

DECA
is the Career and Technical Student Organization (CTSO) for students in the Marketing Pathway.
DECADirect.org | UtahDECA.org | Utah DECA flyer

Utah Career and Technical Education
Learning that works for Utah

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Career Cluster: Computer Science & Information Technology

Career Pathway: Cybersecurity

JUNIOR HIGH / MIDDLE SCHOOL

College and Career Awareness

Creative Coding

HIGH SCHOOL

SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)

- Current Issues
- Law Enforcement *

- Math 1050
- Photography

- Secondary Math 2
- Secondary Math 3

EXPLORER COURSES: Choose one or more of the following courses.

- Computer Programming 1 *
- Computer Science Principles 1 *
- Database Development *
- Law Enforcement *

- Information Technology, Intro *
- Web Development 1 *

CONCENTRATOR COURSES: To be a concentrator you must pass one of the following courses AND one explorer course.

- Cyber Defense and Ethics*

- Linux Fundamentals *

COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

- Cloud Computing *

- Cybersecurity Forensics *

- CTE Internship

POSTSECONDARY:

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.

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>&gt; Computer Network Support Specialist</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Computer and Information Systems Managers</td>
<td>&gt; Computer Programmers</td>
</tr>
</tbody>
</table>

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

Student Testimonial

“Getting a degree will help me to pursue my goal of working as a computer programmer at a large company. CTE classes prepared me by showing me what I would actually be doing in the different job fields and how I would apply the information that I learned in class.”

Aaron Montoya

Jordan High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology

UtahCTE.org: Fact Sheet

Utah Department of Workforce Services Utah Occupational Explorer

FBLA | SkillsUSA | TSA

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

FBLA-PBL.org | SkillsUSA.org | TSAweb.org

Utah-FBLA-PBL.org | UtahSkillsUSA.org | UtahTSA.org

Utah FBLA flyer | SkillsUSA flyer | Utah TSA flyer

112005-KY

Revised October 2020 Published October 2020

ADA Compliant October 2020
Career Cluster: Computer Science & Information Technology

Career Pathway: Information Technology Systems

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
</tr>
<tr>
<td>Creative Coding</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
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<tbody>
<tr>
<td>SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)</td>
</tr>
<tr>
<td>Math 1050</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>EXPLORER COURSES: Choose one or more of the following courses.</th>
</tr>
</thead>
<tbody>
<tr>
<td>CISCO Certified Networking Associate</td>
</tr>
<tr>
<td>Computer Programming 1 *</td>
</tr>
<tr>
<td>Computer Science Principles 1 *</td>
</tr>
<tr>
<td>Database Development *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+ Computer Maintenance and Repair *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geographic Information Systems Remote Sensing *</td>
</tr>
</tbody>
</table>

| CTE Internship |

<table>
<thead>
<tr>
<th>POSTSECONDARY:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)</td>
</tr>
<tr>
<td>UtahMajors.org: Majors Guide</td>
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* concurrent enrollment course  + recommended explorer course

<table>
<thead>
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<th>HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</th>
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<table>
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<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
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<td>N/A</td>
<td>&gt; Computer Network Support Specialist</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Computer Network Architect</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Computer and Information Systems Manager</td>
</tr>
</tbody>
</table>

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
West Jordan High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology
UtahCTE.org: Fact Sheet
Utah 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
UtahFBLA-PBL.org | UtahSkillsUSA.org | UtahTSA.org
Utah FBLA flyer | SkillsUSA flyer | Utah TSA flyer

112002-KY

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Career Cluster: Computer Science & Information Technology

Career Pathway: Programming & Software Development

JUNIOR HIGH / MIDDLE SCHOOL
College and Career Awareness

Creative Coding
Digital Literacy

HIGH SCHOOL
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)

Leadership Principles 1 *
Math 1050

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 *
Database Development *
Game Development Fundamentals 1

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 *
Game Development Fundamentals 2
Mobile Development Fundamentals

COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

AP Computer Science
Algorithms and Data Structures *
Computer Programming, Advanced *

CTE Internship

POSTSECONDARY:
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-Year 2-Year 4-Year
Certificate Assoc. or Tech. Degree Bachelor’s Degree

N/A > Web Developer > CTE Teacher

> Computer Programmer
> Computer Systems Analyst

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 become a video game designer or programmer. The classes I took in high school taught me how to use the programs that I would be pursuing in my career field and have given me a taste of what programming and design are like.”

Jenny Whitecar
Syracuse High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Computer Science & Information Technology
UtahCTE.org: Fact Sheet
Utah Department of Workforce Services
Utah Occupational Explorer

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

FBLA-PBL.org | SkillsUSA.org | TSAweb.org
Utah-FBLA-PBL.org | UtahSkillsUSA.org | UtahTSA.org
Utah FBLA flyer | SkillsUSA flyer | Utah TSA flyer

Revised October 2020
Published October 2020
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Career Cluster: Computer Science & Information Technology

Career Pathway: Web Development

### JUNIOR HIGH / MIDDLE SCHOOL
- College and Career Awareness
- Creative Coding

### HIGH SCHOOL

<table>
<thead>
<tr>
<th>SUPPORTING COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Leadership Principles 1 *</td>
<td>Secondary Math 2</td>
</tr>
<tr>
<td>Math 1050</td>
<td>Secondary Math 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>EXPLORER COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Principles 1 *</td>
<td>Digital Graphic Arts Intro *</td>
</tr>
<tr>
<td>Database Development *</td>
<td>Entrepreneurship *</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CONCENTRATOR COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>HTML 5 Application Development Fundamentals *</td>
<td></td>
</tr>
<tr>
<td>Web Development 2</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>COMPLETER COURSES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.</td>
<td></td>
</tr>
<tr>
<td>Web Development Capstone</td>
<td></td>
</tr>
</tbody>
</table>

### POSTSECONDARY:
- Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
- UtahMajors.org: [Majors Guide](http://UtahMajors.org)

* 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.

<table>
<thead>
<tr>
<th>COLLEGE</th>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 or more</td>
<td>N/A</td>
<td>&gt; Web Developer</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Computer and Information Systems Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Computer Programmer</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>&gt; Database Administrator</td>
</tr>
</tbody>
</table>

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

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**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
Springville High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Computer Science & Information Technology**

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

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**FBLA**
SkillsUSA | TSA
---
are the Career and Technical Student Organizations (CTSO) for students in the Web Development Career Pathway.

[UtahFBLA-PBL.org](http://UtahFBLA-PBL.org) | [UtahSkillsUSA.org](http://UtahSkillsUSA.org) | [UtahTSA.org](http://UtahTSA.org)
[Utah FBLA flyer](http://UtahFBLA-flyer) | [SkillsUSA flyer](http://SkillsUSA-flyer) | [Utah TSA flyer](http://UtahTSA-flyer)

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# 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:
- Business Communication 2
- Business Office Specialist
- Psychology
- Web Development 1

#### EXPLORER COURSES:
- Business Communication 1
- English 1010
- Human Development
- Math 1050
- Teaching as a Profession 1

#### 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 enough courses to earn 3.0 credits in this Pathway.
- Teaching as a Profession 3

#### CTE Internship

### POSTSECONDARY:
- Utah System of Higher Education: [ushe.edu](http://ushe.edu)
- [UtahMajors.org](http://UtahMajors.org): Majors Guide

* concurrent enrollment course  + recommended explorer course

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Teacher Assistant/ Para Professional</td>
<td>&gt; Preschool Teacher</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; Elementary School Teacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Kindergarten Teacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Middle School Teacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Secondary School Teacher</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Special Education Teacher</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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### LEARN MORE ABOUT OCCUPATIONS AND WAGES

#### Education & Training
- UtahCTE.org: [Fact Sheet](http://UtahCTE.org)
- Utah Department of Workforce Services
- [Utah Occupational Explorer](http://UtahOccupationalExplorer)

### Student Testimonial

"My career goal is to become a high school welding teacher. My plan is to attend Utah Valley University and get a bachelor’s degree in education. CTE classes have changed my life. All of these classes have taught me skills that I can apply in life, some of which I have already applied in the workforce."

Miguel Lopez
Provo High School

---

### Educators Rising

is the Career and Technical Student Organization (CTSO) for students in the K-12: Teaching as a Profession Career Pathway.
- [EducatorsRising.org](http://EducatorsRising.org)
- [Utah Educators Rising flyer](http://UtahEducatorsRising flyer)
Career Cluster: Education & Training

Career Pathway: Pre-K: Early Childhood Education

JUNIOR HIGH / MIDDLE SCHOOL
College and Career Awareness

HIGH SCHOOL
SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)
Business Office Specialist *  
Entrepreneurship *

EXPLORER COURSES: Choose one or more of the following courses.
Child Development
Early Childhood Education 1 * +
Food and Nutrition 1

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 enough courses to earn 3.0 credits in this Pathway.
Early Childhood Education 3

CTE Internship

POSTSECONDARY:
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.

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Teacher Assistant</td>
<td>&gt; Education Administrator, Preschool &gt; Preschool Teacher Assistant</td>
<td>&gt; CTE Teacher &gt; Elementary Education Teacher &gt; Special Education Teacher &gt; Social Worker</td>
</tr>
</tbody>
</table>

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 introduced me to my dream career path. After taking child development my sophomore year, I decided I wanted a career working with children. CTE classes helped me figure out what career I want in the future.”

Kayla Clopten
Kearns High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Education & Training
UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

EdRising | FCCLA
is the Career and Technical Student Organization (CTSO) for students in the Pre-K: Early Childhood Education Career Pathway.

EdRising.org | Utah Educators Rising flyer
FCCLAinc.org | UtahFCCLA.org | Utah FCCLA 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Subject</th>
<th>Subject</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chemistry</td>
<td>Chemistry</td>
<td>Secondary Math 2</td>
</tr>
<tr>
<td>Physics</td>
<td>Physics</td>
<td>Secondary Math 2</td>
</tr>
</tbody>
</table>

### EXPLORER COURSES:
Choose one or more of the following courses.

- CAD Architectural Design 1 *
- CAD Mechanical Design 1 *
- CAM Automated Manufacturing
- Composites 1
- Electronics 1 *
- CAD Architectural Design 1 *
- Engineering Principles 1 +
- Engineering Technology
- Machining 1 *
- Manufacturing Principles 1 +
- Metalworking 1
- Engineering Capstone

### CONCENTRATOR COURSES:
To be a concentrator you must pass one of the following courses AND one explorer course.

- Aerospace Engineering
- Electronics 2 *
- Manufacturing Principles 2 *
- Robotics Technology

### COMPLETER COURSES:
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.

- Electronics 3 *
- Engineering Capstone

### POSTSECONDARY:

- Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
- [UtahMajors.org: Majors Guide](https://utahmajors.org)

* 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-Year Certificate**

- > Machine Operator
- > Production Technician

**2-Year Assoc. or Tech. Degree**

- > Electro-Mechanical Technicians
- > Electronics Equipment Assembler

**4-Year Bachelor’s Degree**

- > Automation Engineer
- > CTE Teacher
- > Electrical Engineer
- > Electronics Drafter

---

**Student Testimonial**

“I have always liked doing hands-on projects and thinking of different ways to make something better. With the CTE classes I was able to see whole processes, from the design stage on paper to transferring that design and idea into a computer application, then all the way to building a prototype.”

Hunter Okerlund
Fremont High School

---

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Engineering & Technology**

UtahCTE.org: [Fact Sheet](http://UtahCTE.org)

Utah Department of Workforce Services
Utah Occupational Explorer

**TSA**

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

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

Utah TSA flyer

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Utah CTE classes are open to all qualified students without regard to race, color, national origin, sex, disability, or age.
Career Cluster: Engineering & Technology

Career Pathway: Mechanical Design (CAD)

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
</tr>
<tr>
<td>Exploring Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>SUPPORTING COURSES: Suggested high school courses that support the Career Pathway (Courses DO NOT count towards the Pathway)</td>
</tr>
<tr>
<td>Secondary Math 2</td>
</tr>
</tbody>
</table>

| EXPLORER COURSES: Choose one or more of the following courses. |
| CAD Mechanical Design 1 * + |
| CAM Automated Manufacturing |
| Composites 1 |

| CONCENTRATOR COURSES: To be a concentrator you must pass the following course AND one explorer course. |
| CAD Mechanical Design 2 * |

| COMPLETER COURSES: To be a completer you must pass enough courses to earn 3.0 credits in this Pathway. |
| CAD Mechanical Design 3 * |

| CTE Internship |

| POSTSECONDARY: |
| 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

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>&gt; Engineering Technician</td>
<td>&gt; Aerospace Engineer</td>
</tr>
<tr>
<td></td>
<td>&gt; Mechanical Drafter</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Mechanical Engineering</td>
<td>&gt; Civil Engineer</td>
</tr>
<tr>
<td></td>
<td>Technician</td>
<td>&gt; Industrial Designer</td>
</tr>
</tbody>
</table>

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

Student Testimonial

“My training, in CTE courses in high school, prepared me for life after high school by helping me discover my love of drafting. I discovered the need for drafters in the world of engineering. I focused my CTE Pathway toward this career goal and have taken some advanced drafting classes to improve both my knowledge of the field and my employability in the field.”

Calvin Hill
Intech Collegiate High School

LEARN MORE ABOUT OCCUPATIONS AND WAGES

Engineering & Technology
UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

TSA
is the Career and Technical Student Organization (CTSO) for students in the Mechanical Design (CAD) Career Pathway.
TSAweb.org | UtahTSA.org
Utah TSA flyer
# Career Cluster: Health Science

## Career Pathway: Health Science

### Junior High / Middle School

- **College and Career Awareness**

### High School

#### Explorer Courses:
- Choose one or more of the following courses.
  - Health Science, Intro
  - Human Development *
  - Medical Anatomy and Physiology *

#### Concentrator Courses:
- To be a concentrator you must pass one of the following courses AND one explorer course.
  - Health Science, Advanced *
  - Biotechnology *
  - Dental Assistant
  - Emergency Medical Response *
  - Emergency Medical Technician *
  - Exercise Science/Sports Medicine *

#### Completer Courses:
- To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
  - CTE Internship

### Postsecondary:

- Utah System of Higher Education: [ushe.edu](http://ushe.edu) (Utah’s public colleges and universities)
- UtahMajors.org: [Majors Guide](http://utahmajors.org)

* 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.

<table>
<thead>
<tr>
<th>College</th>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 or more</td>
<td>&gt; Clinical Lab Technician  &gt; Certified Nurse Assistant  &gt; Emergency Medical Technician  &gt; Medical Assistant</td>
<td>&gt; Clinical Lab Technician  &gt; Dental Hygienist  &gt; Occupational Therapy Assistant  &gt; Registered Nurse (RN)</td>
<td>&gt; Athletic Trainer  &gt; CTE Teacher  &gt; Forensic Science Technician  &gt; Microbiologist</td>
</tr>
</tbody>
</table>

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

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**Student Testimonial**

“By taking the CNA and EMT courses in high school I’m better prepared to enter the workforce. These courses allowed me to gain hands-on learning and on-the-job training through CTE Internships and receive instruction from actual teachers who work in the field.”

Taylar Brown

Riverton High School

---

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

### Health Science

UtahCTE.org: [Fact Sheet](http://uathecte.org)

Utah Department of Workforce Services [Utah Occupational Explorer](http://uathecte.org)

---

**HOSA**

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

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

Utah HOSA flyer
# Career Cluster: Hospitality & Tourism

## Career Pathway: Culinary Arts

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
<td></td>
</tr>
</tbody>
</table>

### 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 1
- Culinary Arts 1 * +

**CONCENTRATOR COURSES:** To be a concentrator you must pass one of the following courses AND one explorer course.
- Culinary Arts 2
- ProStart® 1 *

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- Culinary Arts 3 (Course under development. Available school year 2021-2022.)
- Baking and Pastry (Course under development. Available school year 2021-2022.)

**CTE Internship**

**POSTSECONDARY:**
- 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

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>&gt; Baker/Pastry Chef</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Sous Chef</td>
<td>&gt; Culinary Arts Instructor</td>
</tr>
<tr>
<td></td>
<td>&gt; Restaurant Manager</td>
<td>&gt; Executive Chef</td>
</tr>
</tbody>
</table>

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

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### Student Testimonial

“I'm going to further my education after high school and study how to become a pastry chef. One day I plan to open my own bakery. By taking culinary classes in high school, I will take the skills and knowledge of food that have learned to the next level and become the best pastry chef I can be.”

Marissa Muhlestein  
Granger High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Hospitality & Tourism**
- UtahCTE.org: [Fact Sheet](#)
- Utah 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](#) | [UtahFCCLA.org](#)  
[Utah FCCLA flyer](#)

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Revised October 2020  
Published October 2020  
ADA Compliant October 2020
# Career Cluster: Hospitality & Tourism

## Career Pathway: Hospitality & Tourism

### Junior High / Middle School

- **College and Career Awareness**
- **Digital Literacy**
- **Exploring Business and Marketing**

### High School

**Explorer Courses**: Choose one or more of the following courses.

- Accounting 1 *
- Business Communication 1 *
- Business Law
- Business Math and Personal Finance *

**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 enough courses to earn 3.0 credits in this Pathway.

- Business and Marketing Capstone
- CTE Internship

### Postsecondary

- Utah System of Higher Education: [ushe.edu](http://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.

<table>
<thead>
<tr>
<th>1-Year Certificate</th>
<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor's Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>N/A</td>
<td>N/A</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Marketing Manager</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Meeting, Convention, and Event Planner</td>
</tr>
</tbody>
</table>

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

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**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
Herriman High School

## Learn More about Occupations and Wages

**Hospitality & Tourism**

UtahCTE.org: [Fact Sheet](#)

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

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**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: 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 *
- Cosmetology *
- Hair Design

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- CTE Internship

**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.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>&gt; Barber</td>
<td></td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; Cosmetologist</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Hair Designer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Manicurists and Pedicurists</td>
<td></td>
<td></td>
</tr>
<tr>
<td>&gt; Skincare Specialist (Esthetician)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

**Student Testimonial**

“The cosmetology CTE courses I took in high school helped teach me the basic knowledge I need to continue in the field. I learned all the tips and tricks to methods and was taught that there is more than just one way to do task.”

Alexas Walker
Tooele High School

**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Human Services**
Utah CTE.org: Fact Sheet
Utah 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 *
- Emergency Medical Technician *
- Medical Forensics *

**EXPLORER COURSES:** Choose one or more of the following courses.
- Corrections, Intro *
- Criminal Justice, Intro *
- Homeland Security
- Law Enforcement *

**CONCENTRATOR COURSES:** To be a concentrator you must pass one of the following courses AND one explorer course.
- Criminal Law *
- Fire Science *

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- CTE Internship

### POSTSECONDARY:
- 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

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<tbody>
<tr>
<td>&gt; Firefighter</td>
<td>N/A</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; First-Line Supervisor of Fire Fighting and Prevention Workers</td>
<td></td>
<td>&gt; Criminal Justice and Law Enforcement Teachers, postsecondary</td>
</tr>
</tbody>
</table>

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
Morgan High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Law, Public Safety, Corrections & Security**

UtahCTE.org: Fact Sheet
Utah Department of Workforce Services Utah Occupational Explorer

### SkillsUSA

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

SkillsUSA.org | UtahSkillsUSA.org
SkillsUSA flyer

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Revised October 2020
Published October 2020
ADA Compliant October 2020
### Career Cluster: Manufacturing

#### Career Pathway: Manufacturing & Production

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>College and Career Awareness</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exploring Technology</td>
</tr>
</tbody>
</table>

#### 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.
- CAD Mechanical Design 1 *
- CAM Automated Manufacturing
- Manufacturing Technology

#### COMPLETER COURSES: 
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- Woods 3
- CTE Internship

#### POSTSECONDARY: 
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

<table>
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<tr>
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<th>2-Year Assoc. or Tech. Degree</th>
<th>4-Year Bachelor’s Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt; Production Technician</td>
<td>N/A</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Manufacturing Engineer</td>
</tr>
</tbody>
</table>

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

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**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
Tooele High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

**Manufacturing**

UtahCTE.org: Fact Sheet
Utah Department of Workforce Services
Utah Occupational Explorer

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**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

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Revised October 2020
Published October 2020
ADA Compliant October 2020
### Career Cluster: Manufacturing

#### Career Pathway: Welding & Machining

<table>
<thead>
<tr>
<th>JUNIOR HIGH / MIDDLE SCHOOL</th>
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<tbody>
<tr>
<td>College and Career Awareness</td>
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<tr>
<td>Exploring Technology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HIGH SCHOOL</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXPLORER COURSES: Choose one or more of the following courses.</td>
</tr>
<tr>
<td>Machining 1 *</td>
</tr>
<tr>
<td>Metal Working 1</td>
</tr>
<tr>
<td><strong>CONCENTRATOR COURSES:</strong> To be a concentrator you must pass one of the following courses AND one explorer course.</td>
</tr>
<tr>
<td>Machining 2 *</td>
</tr>
<tr>
<td>Welding Technician, Intermediate Level *</td>
</tr>
<tr>
<td><strong>COMPLETER COURSES:</strong> To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.</td>
</tr>
<tr>
<td>American Welding Society Level 1 Welder</td>
</tr>
<tr>
<td>Welding-Pipe Fitting</td>
</tr>
<tr>
<td>Welding-Structural Fitting</td>
</tr>
<tr>
<td>Non-Destructive Testing *</td>
</tr>
<tr>
<td><strong>CTE Internship</strong></td>
</tr>
</tbody>
</table>

**POSTSECONDARY:**
- Utah System of Higher Education: [ushe.edu](http://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.

<table>
<thead>
<tr>
<th>COLLEGE 24 or more</th>
</tr>
</thead>
<tbody>
<tr>
<td>1-Year Certificate</td>
</tr>
<tr>
<td>&gt; Tool and Die Maker</td>
</tr>
<tr>
<td>&gt; Tool Maker</td>
</tr>
<tr>
<td>&gt; Welder</td>
</tr>
<tr>
<td>2-Year Assoc. or Tech. Degree</td>
</tr>
<tr>
<td>&gt; Machine Tool Technician</td>
</tr>
<tr>
<td>&gt; Welding Technician</td>
</tr>
<tr>
<td>4-Year Bachelor’s Degree</td>
</tr>
<tr>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td>&gt; Machine Tool Engineer</td>
</tr>
<tr>
<td>&gt; Welding Engineer</td>
</tr>
</tbody>
</table>

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

### Student Testimonial

“The welding and agricultural classes I took in high school gave me the needed skills to be successful in my career and in all aspects of life.”

Erica McPherson
Delta High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Manufacturing**

UtahCTE.org: [Fact Sheet](#)

Utah Department of Workforce Services
Utah Occupational Explorer

### FFA | SkillsUSA

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

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

ADA Compliant October 2020
# Career Cluster: Transportation, Distribution & Logistics

## Career Pathway: Auto Mechanics & Repairs

### 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, Intro * +
  - Collision 1 * +
  - Collision 2
  - Electronics 1 *
  - Machining 1 *
  - Transportation Technology
  - Welding Technician, Entry Level *
- **CONCENTRATOR COURSES:** To be a concentrator you must pass one of the following courses AND one explorer course.
  - Collision 2
  - ASE Chassis MLR *
- **COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
  - ASE Brakes *
  - ASE Electrical/Electronics *
  - ASE Engine MLR *
  - ASE Engine Performance *
  - ASE Steering and Suspension *

### CTE Internship

### POSTSECONDARY:
- Utah System of Higher Education: ushe.edu (Utah’s public colleges and universities)
- UtahMajors.org: Majors Guide

* concurrent enrollment course  + recommended explorer course

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### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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

<table>
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</thead>
<tbody>
<tr>
<td>POSTSECONDARY</td>
<td></td>
<td>N/A</td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td>&gt; Automotive Service Technician – ASE (Automotive Service Excellence) <a href="http://www.asa.com">www.asa.com</a> is a national certification for automotive service technicians.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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### 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."

Tyrell Przybycien, Spanish Fork High School

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### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Transportation, Distribution & Logistics**

UtahCTE.org: [Fact Sheet](http://www.utahcte.org)

Utah Department of Workforce Services [Utah Occupational Explorer](http://www.employment.utah.gov)

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### SkillsUSA

is the Career and Technical Student Organization (CTSO) for students in the Auto Mechanics & Repairs Career Pathway.

[SkillsUSA.org](http://www.skillsusa.org) | [UtahSkillsUSA.org](http://www.utahskillsusa.org) | [SkillsUSA flyer](http://www.skillsusa.org/files/...)

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Published October 2020

ADA Compliant October 2020
# 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

### EXPLORER COURSES:
Choose one or more of the following courses.
- **Aviation History**
- **Aviation 1**
- **Aviation History**
- **Aviation Maintenance 1**
- **Machining 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**

### COMPLETER COURSES:
To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- **Air Transportation**
- **Aviation Weather**
- **Private Pilot**
- **Aircraft Systems**
- **Flight Simulator**

### CTE Internship

## POSTSECONDARY:

- **Utah System of Higher Education**: ushe.edu (Utah’s public colleges and universities)
- **UtahMajors.org**: Majors Guide

### HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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<tbody>
<tr>
<td>&gt; Aircraft Mechanic</td>
<td>&gt; Air Traffic Controller</td>
<td>&gt; Aircraft Co-pilot</td>
</tr>
<tr>
<td>&gt; Aircraft Service Technician</td>
<td></td>
<td>&gt; Aircraft Pilot</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; CTE Teacher</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&gt; Flight Engineer</td>
</tr>
</tbody>
</table>

* concurrent enrollment course  + recommended explorer course  ** Strands & Standards available SY 2021-2022

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

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**Student Testimonial**

“*I plan to become a certified flight instructor* and use that [credential] in order 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
Olympus High School

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**LEARN MORE ABOUT OCCUPATIONS AND WAGES**

Transportation, Distribution & Logistics

UtahCTE.org: Fact Sheet
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, Intro * +
- Electronics 1 *
- Machining 1 *

**CONCENTRATOR COURSES:** To be a concentrator you must pass the following course AND one explorer course.
- Diesel 1 *

**COMPLETER COURSES:** To be a completer you must pass enough courses to earn 3.0 credits in this Pathway.
- Diesel 2 *
- CTE Internship

#### POSTSECONDARY:

- [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

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<td>&gt; CTE Teacher</td>
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### Student Testimonial

"I completed a CTE Internship at a local garage in my community. Because of the courses I have taken, the safety certifications I have earned, and my internship, Jiffy Lube hired me on the spot. The CTE Pathways program helped me learn to set goals and make wise choices. CTE courses gave me real-life, marketable skills."

Trever Gardner
Grantsville High School

### LEARN MORE ABOUT OCCUPATIONS AND WAGES

**Transportation, Distribution & Logistics**

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

### SkillsUSA

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

SkillsUSA.org | UtahSkillsUSA.org
SkillsUSA flyer