Agriculture, Food & Natural Resources

The Agriculture, Food & Natural Resources Career Cluster focuses on preparing students for employment in careers that relate to the production, processing, marketing, distribution, financing, and development of agricultural commodities and resources, including food, fiber, wood products, natural resources, horticulture, and other plant and animal products/resources.

Utah Career and Technical Education (CTE) Career Pathways Align with the National Career Clusters®.

5,865 students concentrated in a CTE Career Pathway within the Agriculture, Food & Natural Resources Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

Top Three

Industry certifications earned by students in CTE Career Pathways within the Agriculture, Food & Natural Resources Career Cluster.

<table>
<thead>
<tr>
<th>Industry Certification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Food &amp; Nutrition 1</td>
<td>12,241</td>
</tr>
<tr>
<td>Food &amp; Nutrition 2</td>
<td>4,084</td>
</tr>
<tr>
<td>Animal Science 1</td>
<td>2,078</td>
</tr>
</tbody>
</table>

Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of FFA or FCCLA.
(2018-2019)
UtahFFA.org | FFA.org
UtahFCCLA.org | FCCLAINC.org

Twenty

percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“My CTE classes and my leadership experience in 4-H and FFA have laid a strong foundation on which I can build upon. I plan to go to college to complete a teaching degree. I like the idea of ‘paying it forward.’ I have had a wonderful education experience and I hope to provide that for the future students I will teach.”

Kaitlin Hallam

24,277 CTE Skill Certificates awarded to students in the Agriculture, Food & Natural Resources Career Cluster

(SY 2018-2019)

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Agriculture, Food & Natural Resources Career Cluster

Utah CTE Career Pathways: (SY 2019-2020)

> Agricultural Mechanics Systems
> Agricultural Production Systems
> Animal & Veterinary Science
> Food Science, Dietetics & Nutrition
> Natural Resource Science
> Plant Science
Architecture & Construction

The Architecture & Construction Career Cluster focuses on preparing students for employment in careers that relate to the designing, planning, managing, building, and maintaining the constructed environment.

UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

1,083 students concentrated in a CTE Career Pathway within the Architecture & Construction Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

TOP THREE

industry certifications earned by students in CTE Career Pathways within the Architecture & Construction Career Cluster.

3,527 Interior Design 1
544 CAD Arch. Design 1
431 Interior Design 2

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

Fifty-seven percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

Twenty percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“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. My high school education helped me in pursuing such a rigorous program.”

Paige Kirschbaum

3,767 students are members of a Career and Technical Student Organization (CTSO) aligned with the Architecture & Construction Career Cluster. Students who participate-in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of SkillsUSA or TSA. (SY 2018-2019)

UtahSkillsUSA.org | SkillsUSA.org
UtahTSA.org | TSAweb.org

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Architecture & Construction Career Cluster

Utah CTE Career Pathways: (SY 2019-2020)
> CAD Architectural Design
> Interior Design
Construction & Structural Systems
> Carpentry
> Electrical
> Plumbing

4,951 CTE Skill Certificates awarded to students in the Architecture & Construction Career Cluster. (SY 2018-2019)

CTE Learning that works for Utah

2016-2017 Data Represents Secondary Education Source of Data: Utah State Board of Education August 2019

Utah State Board of Education | 250 East 500 South | P.O. Box 144200 | Salt Lake City, UT 84114-4200
Sydnee Dickson, Ed.D., State Superintendent of Public Instruction
Thalea Longhurst, State Director of Career and Technical Education
Utah CTSOs are open to all qualified students without regard to race, color, national origin, sex, disability, or age.
The Arts, Audio/Visual Technology & Communications Career Cluster focuses on preparing students for employment in careers that relate to the designing, producing, exhibiting, performing, writing, and publishing multimedia content, including visual and performing arts, design, journalism, and entertainment services.

**Utah Career and Technical Education (CTE) Career Pathways Align with the National Career Clusters®.**

**Fifty-seven** percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

**Twenty** percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

**Student Success**

“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. It not only satisfied my desire to learn about this field but the CTE classes also has made me more knowledgeable and more prepared for college and employment in my field of study.”

Tyllar Hubbard

**CTE Career Pathways**

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

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

**Utah CTE Career Pathways: (SY 2019-2020)**

- Fashion, Apparel & Textiles
- Broadcasting
  - Audio/Visual Production Professional
  - Broadcasting Professional
- Graphic Design & Communication
  - Commercial Art | Commercial Photography
  - Digital Media | Graphics Printing

**CTE Skill Certificates**

20,586 CTE Skill Certificates awarded to students in the Arts, Audio/Visual Technology & Communications Career Cluster.

(SY 2018-2019)

**Industry certifications**

4,383 Industry certifications earned by students in CTE Career Pathways within the Arts, Audio/Visual Technology & Communications Career Cluster.

- Basic Digital Photo: 5,637
- Apparel Design & Prod. 1: 3,157
- Video Production 1: 2,060

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

**TOP THREE**

2,999 students concentrated in a CTE Career Pathway within the Arts, Audio/Visual Technology & Communications Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**Utah CTSOs**

4,383 students are members of a Career and Technical Student Organization (CTSO) aligned with the Arts, Audio/Visual Technology & Communications Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of FCCLA or SkillsUSA. (SY 2018-2019)

UtahFCCLA.org | FCCLAinc.org
UtahSkillsUSA.org | SkillsUSA.org
The **Business, Finance & Marketing** Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing, organizing, directing, and evaluating business functions essential to efficient and productive business operations.

**UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.**

**Fifty-seven** percent of students statewide **concentrated** in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

**Twenty** percent of students statewide **completed** a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

**Student Success**

“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. I do all of the accounting, bookkeeping, data entry, and reporting. I’m using Microsoft Office daily, especially Excel.”

Andrew McLay

**5,844** students are members of a Career and Technical Student Organization (CTSO) aligned with the **Business, Finance & Marketing** Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of **DECA or FBLA**. (SY 2018-2019)

[UtahDECA.org](http://UtahDECA.org) | [DECADirect.org](http://DECADirect.org)

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

**CTE Career Pathways**

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

**Business, Finance & Marketing Career Cluster**

**Utah CTE Career Pathways: (SY 2019-2020)**

- Accounting & Financial Operations
- Customer Service & Management
- Entrepreneurship
- Office/Administrative Support
- Marketing & Sales

**15,635** CTE Skill Certificates awarded to students in the **Business, Finance & Marketing** Career Cluster.

(SY 2018-2019)

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

**1,576** students concentrated in a CTE Career Pathway within the **Business, Finance & Marketing** Career Cluster, with **161,596 students enrolled in CTE courses**. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**TOP THREE**

<table>
<thead>
<tr>
<th>Industry/Business Area</th>
<th>Industry/CTE Skill CTE Pathways: (SY 2018-2019)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting &amp; Financial Operations</td>
<td>4,141 Bus.Office Specialist</td>
</tr>
<tr>
<td>Digital Business Apps.</td>
<td>1,465</td>
</tr>
<tr>
<td>Entrepreneurship</td>
<td>1,439</td>
</tr>
</tbody>
</table>

**15,635** CTE Skill Certificates awarded to students in the **Business, Finance & Marketing** Career Cluster.

(SY 2018-2019)
Education & Training

The Education & Training Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing, and providing education and training services, and related learning support services.

UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

6,181

students concentrated in a CTE Career Pathway within the Education & Training Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

TOP THREE

Industry certifications earned by students in CTE Career Pathways within the Education & Training Career Cluster. (SY 2018-2019)

5,790 Child Development
1,978 Adult Roles & Financial Lit.
1,159 Early Childhood Ed. 1A

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

50

percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

20

percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“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

23,187

students are members of a Career and Technical Student Organization (CTSO) aligned with the Education & Training Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of DECA, Educators Rising, FBLA, FCCLA, FFA, HOSA, SkillsUSA, or TSA. (SY 2018-2019)

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Education & Training Career Cluster

Utah CTE Career Pathways: (SY 2019-2020)

> Pre-K: Early Childhood Education
> K-12: Teaching as a Profession

12,067

CTE Skill Certificates awarded to students in the Education & Training Career Cluster. (SY 2018-2019)
Engineering & Technology

The Engineering & Technology Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing, and providing professional and technical services, including research and development services.

Utah Career and Technical Education (CTE) Career Pathways Align with the National Career Clusters®.

1,499
students concentrated in a CTE Career Pathway within the Engineering & Technology Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

Top Three
industry certifications earned by students in CTE Career Pathways within the Engineering & Technology Career Cluster.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Certification</th>
</tr>
</thead>
<tbody>
<tr>
<td>788</td>
<td>CAD Mech. Design 1</td>
</tr>
<tr>
<td>428</td>
<td>Engineering Technology</td>
</tr>
<tr>
<td>354</td>
<td>Robotics 1</td>
</tr>
</tbody>
</table>

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

Fifty-seven percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

Twenty percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“I want to earn an AAS degree in mechatronics. After completing my degree I plan on finding work with a company designing production equipment. My high school engineering instructor was an amazing person and has influenced my love of this field and the path that I have chosen.”

Connor Hendry

2,239
students are members of a Career and Technical Student Organization (CTSO) aligned with the Engineering & Technology Career Cluster. Students who participate-in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of TSA. (SY 2018-2019)

UtahTSA.org | TSAweb.org

2,451
CTE Skill Certificates awarded to students in the Engineering & Technology Career Cluster. (SY 2018-2019)

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Engineering & Technology Career Cluster

Utah CTE Career Pathways: (SY 2019-2020)

- Aeronautical Engineering
- CAD Mechanical Design
- Electrical Engineering
- Manufacturing Engineering
- Materials Science
- Mechanical Engineering
- Robotics

2017-2018 Data Represents Secondary Education
Source of Data: Utah State Board of Education
August 2019

Utah CTSOs are open to all qualified students without regard to race, color, national origin, sex, disability, or age.
Health Science

The Health Science Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing, and providing therapeutic services, health informatics, support services, and biotechnology research and development.

**Utah Career and Technical Education (CTE) Career Pathways Align with the National Career Clusters®.**

5,858 students concentrated in a CTE Career Pathway within the Health Science Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**TOP THREE**

industry certifications earned by students in CTE Career Pathways within the Health Science Career Cluster.

<table>
<thead>
<tr>
<th>Certification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intro. to Health Science</td>
<td>2,513</td>
</tr>
<tr>
<td>Medical Terminology</td>
<td>2,338</td>
</tr>
<tr>
<td>Med. Anatomy &amp; Physiology</td>
<td>1,811</td>
</tr>
</tbody>
</table>

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

**Fifty-seven** percent of students statewide concentrated in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

**Twenty** percent of students statewide completed a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

**Student Success**

“In the CNA class I learned many skills. Most importantly I learned how to interact with people from all walks of life and care for them in the ways I would want my loved ones to be cared for.

“It’s a requirement for many RN programs to have your CNA before applying to nursing school. I’m glad that CTE gave me the chance to complete that requirement in high school.”

Marie-Chantal Niwenshuti

4,235 students are members of a Career and Technical Student Organization (CTSO) aligned with the Health Science Career Cluster. Students who participate-in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of HOSA. (SY 2018-2019)

UtHOSA.wordpress.org | HOSA.org

9,755 CTE Skill Certificates awarded to students in the Health Science Career Cluster. (SY 2018-2019)

**CTE Career Pathways**

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by career cluster and each Career Pathway culminates in an industry-recognized credential of value.

**Health Science Career Cluster**

**Utah CTE Career Pathways: (SY 2019-2020)**

> Emergency Medical Services
> Nursing Services
> Clinical Laboratory Science
  > Biotechnology
  > Medical Forensics
> Therapeutic Clinical Services
  > Dental Assistant
  > Exercise Science/Sports Medicine
> Medical Assistant
> Pharmacy Technician

2017-2018 Data Represents Secondary Education
Source of Data: Utah State Board of Education
August 2019

Utah CTSOs are open to all qualified students without regard to race, color, national origin, sex, disability, or age.
Hospitality & Tourism

The Hospitality & Tourism Career Cluster focuses on preparing students for employment in careers that relate to the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

2,277

students concentrated in a CTE Career Pathway within the Hospitality & Tourism Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

TOP THREE

industry certifications earned by students in CTE Career Pathways within the Hospitality & Tourism Career Cluster. (SY 2019-2020)

<table>
<thead>
<tr>
<th>Industry Certification</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hospitality &amp; Tourism</td>
<td>579</td>
</tr>
<tr>
<td>Culinary Arts</td>
<td>445</td>
</tr>
<tr>
<td>Event Planning &amp; Mgmt.</td>
<td>138</td>
</tr>
</tbody>
</table>

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

Fifty-seven

percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

Twenty

percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“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

5,801

students are members of a Career and Technical Student Organization (CTSO) aligned with the Hospitality & Tourism Career Cluster. Students who participate in-the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of FBLA or FCCLA. (SY 2018-2019)

Utah-FBLA-pbl.org | FBLA-pbl.org
UtahFCCLA.org | FCCLAinc.org

1,206

CTE Skill Certificates awarded to students in the Hospitality & Tourism Career Cluster. (SY 2018-2019)

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Hospitality & Tourism Career Cluster

Utah CTE Career Pathways: (SY 2019-2020)
> Culinary Arts
> Hospitality & Tourism
Human Services

The Human Services Career Cluster focuses on preparing students for employment in careers that relate to the management, marketing and operations of restaurants and other food services, lodging, attractions, recreation events and travel related services.

**Top Three** industry certifications earned by students statewide in CTE Career Pathways.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Human Development</td>
<td>139</td>
</tr>
</tbody>
</table>

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

**3,517** students concentrated in a CTE Career Pathway within the Human Services Career Cluster, with **161,596 students enrolled in CTE courses**. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**Fifty-seven** percent of students statewide concentrated in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

**Twenty** percent of students statewide completed a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

**Student Success**

“My occupational goal is to become a master esthetician and own my own practice employing multiple estheticians and staff. CTE courses have developed skills enabling me to be a step ahead of my peers. I will graduate from high school and immediately be able to compete for desirable jobs in my chosen field.”

Madelyn Lundquist

**1,528** students are members of a Career and Technical Student Organization (CTSO) aligned with the Human Services Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of SkillsUSA. (SY 2018-2019)

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

**CTE Career Pathways**

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

**Human Services Career Cluster**

**Utah CTE Career Pathways: (SY 2019-2020)**

- Community, Family & Social Services
- Personal Services
  - Cosmetology/Barbering
  - Esthetician/Nail Technician
The Information Technology Career Cluster focuses on preparing students for employment in careers related to building linkages in IT occupations for entry level, technical and professional careers that relate to the design, development, support and management of hardware, software, multimedia and systems integration services.

### TOP THREE

Industry certifications earned by students in CTE Career Pathways within the Information Technology Career Cluster.

- **9,589** Ex. Comp. Science
- **1,766** Computer Prog. 1
- **732** Web Development 1

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

### Fifty-seven

percent of students statewide **concentrated** in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

### Twenty

percent of students statewide **completed** a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

### Student Success

“To reach my goal of becoming a graphic designer and animator, I will need to gain both an education and extensive experience. I have begun my experience and education by taking multiple CTE classes while still in high school, that will prepare me for the fields of graphic design and animation. 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

### CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

#### Information Technology Career Cluster

**Utah CTE Career Pathways: (SY 2019-2020)**

- Cybersecurity
- Information Technology Systems
- Programming & Software Development
- Web Development

---

**3,227** students concentrated in a CTE Career Pathway within the Information Technology Career Cluster, with **161,596 students enrolled in CTE courses.** (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**6,713** students are members of a Career and Technical Student Organization (CTSO) aligned with the Information Technology Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of FBLA, SkillsUSA or TSA. (SY 2018-2019)

- Utah-FBLA-pbl.org
- FBLA-pbl.org
- UtahSkillsUSA.org
- SkillsUSA.org
- UtahTSA.org
- TSAweb.org

**13,901** CTE Skill Certificates awarded to students in the Information Technology Career Cluster. (SY 2018-2019)

Utah CTSOs are open to all qualified students without regard to race, color, national origin, sex, disability, or age.
The Law, Public Safety, Corrections & Security Career Cluster focuses on preparing students for employment in careers that relate to the planning, managing and providing legal, public safety, protective services and homeland security, including professional and technical support services.

### UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

**50%** students concentrated in a CTE Career Pathway within the Law, Public Safety, Corrections & Security Career Cluster, with **161,596 students enrolled in CTE courses.** (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

**20%** percent of students statewide completed a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

**7,718** students are members of a Career and Technical Student Organization (CTSO) aligned with the Law, Public Safety, Corrections & Security Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of SkillsUSA. (SY 2018-2019)

**1,528** students concentrated in CTE Career Pathways within the Law, Public Safety, Corrections & Security Career Cluster.

**1,548** CTE Skill Certificates awarded to students in the Law, Public Safety, Corrections & Security Career Cluster. (SY 2018-2019)

**1,548** students are members of a Career and Technical Student Organization (CTSO) aligned with the Law, Public Safety, Corrections & Security Career Cluster.

### CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

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

**Utah CTE Career Pathway: (SY 2019-2020)**

Public Safety & Law Enforcement

> Protective Services

### Student Success

“The CTE program provided me with the opportunity to prepare myself for this career by giving me the chance to learn and gain knowledge of the criminal justice field. I had many opportunities to have hands-on training and attend field trips that supported me with the education I need to choose a career that I am truly passionate about.”

Jamie Anderson

UtahSkillsUSA.org | SkillsUSA.org

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

The Manufacturing Career Cluster focuses on preparing students for employment in careers that relate to the planning and performing the processing of materials into intermediate or final products and related professional and technical support activities such as production planning and control, maintenance and manufacturing/process engineering.

**Utah Career and Technical Education (CTE) Career Pathways Align with the National Career Clusters.**

**Fifty-seven** percent of students statewide **concentrated** in a CTE Career Pathway. A **concentrator** is a student who has completed **1.5 credits** in a single CTE program of study.

**Twenty** percent of students statewide **completed** a CTE Career Pathway. A **completer** is a student who has completed **3.0 credits** in a single CTE program of study.

**Student Success**

“My long-term occupation and educational goal is to get a job working in the aerospace industry making composites. I appreciate the opportunity I have had to pursue CTE classes, both in high school and in the composites program at Mountainland Technical College. I feel like I have a head start on my future career. I feel that through taking CTE classes I was able to find a plan that will work for me.”

Jacob Michael Argyle

**3,767** students are members of a Career and Technical Student Organization (CTSO) aligned with the Manufacturing Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of SkillsUSA or TSA. (SY 2018-2019)

UtahSkillsUSA.org | SkillsUSA.org
UtahTSA.org | TSAweb.org

**CTE Career Pathways**

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

**Manufacturing Career Cluster**

Utah CTE Career Pathways: (SY 2019-2020)
> Welding
> Advanced Manufacturing
  > Cabinetmaking/Millwork
  > Machine Tool

**TOP THREE**

industry certifications earned by students in CTE Career Pathways within the Manufacturing Career Cluster, with **161,596 students enrolled in CTE courses**. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

<table>
<thead>
<tr>
<th>Industry</th>
<th>Students</th>
</tr>
</thead>
<tbody>
<tr>
<td>Woodworking</td>
<td>3,822</td>
</tr>
<tr>
<td>Physics w/ Technology</td>
<td>2,559</td>
</tr>
<tr>
<td>Manuf. Technology</td>
<td>1,813</td>
</tr>
</tbody>
</table>

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

**11,069** CTE Skill Certificates awarded to students in the Manufacturing Career Cluster.

(SY 2018-2019)
Transportation, Distribution & Logistics

The Transportation, Distribution & Logistics Career Cluster focuses on preparing students for employment in careers that relate to the planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional support services such as transportation infrastructure planning and management, logistics services, mobile equipment and

UTAH CAREER AND TECHNICAL EDUCATION (CTE) CAREER PATHWAYS ALIGN WITH THE NATIONAL CAREER CLUSTERS®.

2,432
students concentrated in a CTE Career Pathway within the Transportation, Distribution & Logistics Career Cluster, with 161,596 students enrolled in CTE courses. (SY 2017-2018)

CTE provides all students access to high-quality rigorous career focused programs that result in attainment of credentials with labor market value.

TOP THREE
industry certifications earned by students in CTE Career Pathways within the Transportation, Distribution & Logistics Career Cluster.

2,185  Intro. Auto Service
309  Small Engine 1
66  Basic Auto. Coll. Repair

Industry-based certifications are awarded through validation of skills in cooperation with a business, trade association, or other industry group.

Fifty-seven percent of students statewide concentrated in a CTE Career Pathway. A concentrator is a student who has completed 1.5 credits in a single CTE program of study.

Twenty percent of students statewide completed a CTE Career Pathway. A completer is a student who has completed 3.0 credits in a single CTE program of study.

Student Success

“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

1,528 students are members of a Career and Technical Student Organization (CTSO) aligned with the Transportation, Distribution & Logistics Career Cluster. Students who participate in the related CTE Career Pathways have the opportunity to join the Career and Technical Student Organization (CTSO) of SkillsUSA. (SY 2018-2019)

UtahSkillsUSA.org | SkillsUSA.org

2,560 CTE Skill Certificates awarded to students in the Transportation, Distribution & Logistics Career Cluster. (SY 2018-2019)

CTE Career Pathways

Through participation in CTE Career Pathways students learn how to become productive employees and gain the academic skills to increase their earning potential while still in high school. Utah CTE Career Pathways are categorized by Career Cluster and each Career Pathway culminates in an industry-recognized credential of value.

Transportation, Distribution & Logistics Career Cluster
Utah CTE Career Pathways: (SY 2019-2020)
> Aviation
> Aviation Maintenance Technology
> Diesel Automotive
> Collision Repair
> Service Technician

[Additional content regarding industry certifications, paths, and achievements within the Transportation, Distribution & Logistics Career Cluster is included.]

2017-2018 Data Represents Secondary Education Source of Data: Utah State Board of Education August 2019

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