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®.**

**4,771**

students concentrated in a CTE Career Pathway within the Engineering & Technology Career Cluster, with **171,489 students enrolled in CTE courses.** (SY 2019-2020)

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

**TOP THREE CTE Skill Certifications**

earned by students in CTE Career Pathways within the Engineering & Technology Career Cluster. (SY 2019-2020)

- **650** Welding Tech, Entry
- **457** CAD Mech. Design 1
- **374** Robotics 1

**2,502**

CTE Skill Certifications earned by students in this Career Cluster. (SY 2019-2020)

**29**

Third-party certifications earned by students in the Engineering & Technology Career Cluster. (SY 2019-2020)

**45.9%***

of students statewide concentrating in a CTE Career Pathway.

A concentrator is a student who has completed specific requirements in a single CTE program of study.

**15.3%***

of students statewide completed a CTE Career Pathway.

A completer is a student who has completed specific course requirements and earned 3.0 credits in a single CTE program of study.

* Perkins V strengthens the requirements for a student to become a concentrator and completer. Percentages have decreased over prior years as a result of the new Perkins V definitions.

**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

**2,659**

students are members of a Career and Technical Student Organization (CTSO) aligned with the Engineering & Technology Career Cluster. (SY 2019-2020)

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.

**Engineering & Technology Career Cluster**

**Utah CTE Career Pathways: (SY 2020-2021)**
> Engineering
> Mechanical Design (CAD)

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Sydnee Dickson, Ed.D., State Superintendent of Public Instruction
Thalea Longhurst, State Director of Career and Technical Education

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