Utah Career and Technical Education Career Pathway
2018-2019 School Year

CTE Learning that works for Utah

CareerClusters®
PATHWAYS TO COLLEGE & CAREER READINESS
Manufacturing

CTSO Information

Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.

Students who participate in the Medical Innovations Career Pathway choose among the following CTSOs, depending upon what is available at their school:

SkillsUSA | TSA

Workforce Trends

The life sciences industry in Utah is growing, as a result demand is increasing for skilled professionals. Utah's life sciences industry is comprised of more than 1,000 companies and 33,000 employees.

According to BioUtah, the average life sciences job growth in Utah is 25%, compared to 9% in Florida and 7% in California and in Texas.

Career Cluster: Manufacturing

Career Pathway: Medical Innovations

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
38.01.00.00.011	Manufacturing Principles 1 *	.50	
	Choose Biomanufacturing or Industrial Plastics		
38.01.00.00.171	Biomanufacturing	.50	
40.10.00.00.050	Industrial Plastics	.50	1.50 credits
	Choose one of the following		
41.00.00.00.050	CTE Internship	.50	
41.00.00.00.030	Workplace Skills	.50	
		1.50 credits for completion	

* Course can be taken up to 1.00 credit.
Foundation courses taken beyond the required credits can be used as elective credit.

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

Partner School Districts include:
Medical Device – Granite | Canyons
Laboratory – Davis | Granite | Jordan | Tooele

Medical Innovations is:
> High skill
> High wage
> High demand

Sample Occupations Requiring:

High School Diploma
> Molding Operator
> Production Operator

Certificate
> Technician

Assoc. or Technical Degree
> Study Director
> Subcontracting Coordinator

Baccalaureate Degree
> Career and Technical Education Teacher
> Manufacturing Engineer
> Production Specialist

Graduate or Prof. Degree
> Manufacturing Engineer

Student Testimonial

"The CTE courses I took in high school set the foundation I needed to choose my career path. Taking classes that were specific to my career allowed me to become more prepared for college life.

Kaden Carroll

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

12th Grade	1-Year Certificate	2-Year Associate or Technical Degree	4-Year Bachelor's Degree	More Graduate or Prof. Degree

Certificates are awarded upon the successful completion of a brief course of study, usually one year or less. Upon completion of a course of study, a certificate does not require any further action to retain.

In high school a variety of certificates can be earned.

An academic degree is an award for the completion of a program or course of study over multiple years at postsecondary education institutions.

In 2016-2017, 74 percent of secondary students who concentrated in a CTE Career Pathway placed in postsecondary education, advanced training, military service or employment (October 1-December 31).

Utah Business and Industry Facts

Utah high school seniors have the opportunity to participate in the Utah Medical Innovations Pathways program. The program was created by industry to open opportunities for young men and women who are interested in the medical innovations field.

CTE Skill Certificates
Competency-based student assessments, measured by core standards and competencies, needed to be successful in the workforce.

UtahFutures: College and Career Planning
Visit UtahFutures.org for salary projections, labor market demand, and training options.

In 2017-2018, 111,238 CTE skill certificates were awarded to high school students. Students' knowledge and performance is demonstrated as part of the Skill Certificate process.

In 2016-2017, the graduation rate for students who concentrated in a CTE Career Pathway was 95 percent, compared to Utah's statewide graduation rate of 86 percent.