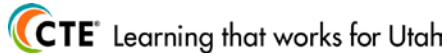


Utah Career and Technical Education Career Pathway

2018-2019 School Year



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

SkillsUSA is the CTSSO for students in the Radio Broadcasting Technician Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

Workforce Trends
 Technological improvements in the industry mean greater efficiencies in the workplace. Growth is expected to stem from businesses, schools, and radio and television stations seeking new equipment to improve their audio and video capabilities.

According to the U.S. Bureau of Labor Statistics, employment of broadcast and sound engineering technicians is projected to increase 7 percent through the year 2024.

Career Cluster: Arts, Audio/Visual Technology & Communication

Career Pathway: Broadcasting: Radio Broadcasting Technician

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.01.00.00.040	Radio Broadcasting 1 *	.50	1.00 credit
40.01.00.00.045	Radio Broadcasting 2 *	.50	
ELECTIVE COURSES			
32.02.00.00.010	Accounting 1	.50	2.00 credits
32.02.00.00.140	Business Management	.50	
35.02.00.00.030	Computer Programming 1	1.00	
35.02.00.00.010	Digital Media 1	1.00	
38.01.00.00.021	Electronics 1 *	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 credits for completion			

* Course can be taken up to 1.00 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.

Radio Broadcasting Technician is:
 > High skill

Sample Occupations Requiring:

High School Diploma

> Radio Announcer

Certificate

> Sound Engineering Technician

Assoc. or Technical Degree

> Audio Video Equipment Technician

> Broadcast Technician

> Communication Equipment Mechanic

> Radio, Cellular, and Tower Equipment Installers and Repairers

> Radio Broadcaster

Baccalaureate Degree

> Audio-Visual Specialist

> Career and Technical Education Teacher

Graduate or Prof. Degree

> Radio Broadcaster

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

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 2015-2016, 73 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

According to the Utah Department of Workforce Services, there are 65 radio and television broadcasting firms in Utah. The annual median salary for a broadcast technician is \$35,500.

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

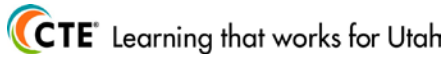
Visit UtahFutures.org for salary projections, labor market demand, and training options.

In 2016-2017, 105,691 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.

Utah Career and Technical Education Career Pathway

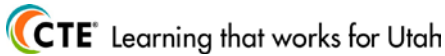
2018-2019 School Year



<p>CTSO Information Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.</p> <p>SkillsUSA is the CTSSO for students in the Broadcasting Technician Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.</p> <p>Workforce Trends As businesses, schools, and radio and television stations demand new equipment, to improve their audio and video capabilities, the demand for broadcast and sound engineering technicians is expected to increase.</p> <p>According to the U.S. Bureau of Labor Statistics, employment of audio and visual technicians is projected to grow 12 percent through the year 2024.</p>	<h3 style="margin: 0;">Career Cluster: Arts, Audio/Visual Technology & Communication</h3> <h3 style="margin: 0;">Career Pathway: Broadcasting: TV Broadcasting Technician</h3> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #009999; color: white;"> <th style="padding: 5px;">CORE CODE</th> <th style="padding: 5px;">FOUNDATION COURSES (required)</th> <th colspan="2" style="padding: 5px;">CREDITS</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">40.01.00.00.005</td> <td style="padding: 5px;">TV Broadcasting 1 *</td> <td style="padding: 5px; text-align: center;">.50</td> <td rowspan="2" style="padding: 5px; text-align: center; vertical-align: middle;">1.00 credit</td> </tr> <tr> <td style="padding: 5px;">40.01.00.00.010</td> <td style="padding: 5px;">TV Broadcasting 2 *</td> <td style="padding: 5px; text-align: center;">.50</td> </tr> <tr style="background-color: #009999; color: white;"> <th colspan="4" style="padding: 5px;">ELECTIVE COURSES</th> </tr> <tr> <td style="padding: 5px;">40.13.00.00.015</td> <td style="padding: 5px;">Advanced Commercial Photography *</td> <td style="padding: 5px; text-align: center;">.50</td> <td rowspan="7" style="padding: 5px; text-align: center; vertical-align: middle;">2.00 credits</td> </tr> <tr> <td style="padding: 5px;">40.13.00.00.012</td> <td style="padding: 5px;">Basic Digital Photography *</td> <td style="padding: 5px; text-align: center;">.50</td> </tr> <tr> <td style="padding: 5px;">35.02.00.00.030</td> <td style="padding: 5px;">Computer Programming 1</td> <td style="padding: 5px; text-align: center;">1.00</td> </tr> <tr> <td style="padding: 5px;">35.02.00.00.010</td> <td style="padding: 5px;">Digital Media 1</td> <td style="padding: 5px; text-align: center;">1.00</td> </tr> <tr> <td style="padding: 5px;">38.01.00.00.021</td> <td style="padding: 5px;">Electronics 1 *</td> <td style="padding: 5px; text-align: center;">.50</td> </tr> <tr> <td style="padding: 5px;">40.01.00.00.030</td> <td style="padding: 5px;">Video Production 1 *</td> <td style="padding: 5px; text-align: center;">.50</td> </tr> <tr> <td style="padding: 5px;">41.00.00.00.030</td> <td style="padding: 5px;">Workplace Skills</td> <td style="padding: 5px; text-align: center;">.50</td> </tr> <tr> <td colspan="4" style="padding: 5px; text-align: center;">3.00 credits for completion</td> </tr> </tbody> </table> <p style="font-size: small; margin-top: 5px;">* Course can be taken up to 1.00 credit.</p> <p style="text-align: center; margin-top: 10px;">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.</p>	CORE CODE	FOUNDATION COURSES (required)	CREDITS		40.01.00.00.005	TV Broadcasting 1 *	.50	1.00 credit	40.01.00.00.010	TV Broadcasting 2 *	.50	ELECTIVE COURSES				40.13.00.00.015	Advanced Commercial Photography *	.50	2.00 credits	40.13.00.00.012	Basic Digital Photography *	.50	35.02.00.00.030	Computer Programming 1	1.00	35.02.00.00.010	Digital Media 1	1.00	38.01.00.00.021	Electronics 1 *	.50	40.01.00.00.030	Video Production 1 *	.50	41.00.00.00.030	Workplace Skills	.50	3.00 credits for completion				<p>Broadcasting Technician is:</p> <ul style="list-style-type: none"> > High skill > High wage > High demand <p>Sample Occupations Requiring:</p> <p><u>High School Diploma</u> > Advertising Salesperson</p> <p><u>Certificate</u> > Video Editor</p> <p><u>Assoc. or Technical Degree</u> > Audio Video Equipment Technician > Broadcast Technician > Radio, Cellular, and Tower Equipment Installers and Repairers > Sound Engineering Technician</p> <p><u>Baccalaureate Degree</u> > Announcer > Camera Operator > Career and Technical Education Teacher > Film and Video Editor > Producer and Director</p> <p><u>Graduate or Prof. Degree</u> > Television Broadcaster</p>
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<p>Student Testimonial</p> <p>"I knew a lot about how to film, but I didn't know much about the technical aspects. The CTE classes helped me gain that understanding. Not only did I learn the technical aspects of cameras, as I enjoy cinematography, but I also learned the technical aspects of sound, lighting."</p> <p style="text-align: right; font-size: small;">Morgan Taylor</p>	<h3 style="margin: 0;">HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</h3> <p style="margin: 0; font-size: small;">There are a number of options for education and training beyond high school, depending on your career goals.</p> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <tr> <td style="width: 15%; background-color: #009999; color: white; text-align: center; padding: 5px;">12th Grade</td> <td style="width: 15%; background-color: #ff9933; color: white; text-align: center; padding: 5px;">1-Year Certificate</td> <td style="width: 15%; background-color: #99cc33; color: white; text-align: center; padding: 5px;">2-Year Associate or Technical Degree</td> <td style="width: 15%; background-color: #ffcc00; color: white; text-align: center; padding: 5px;">4-Year Bachelor's Degree</td> <td style="width: 15%; background-color: #999999; color: white; text-align: center; padding: 5px;">More Graduate or Prof. Degree</td> </tr> </table> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; font-size: small;"> <p>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.</p> <p>In high school a variety of certificates can be earned.</p> </div> <div style="width: 45%; font-size: small;"> <p>An academic degree is an award for the completion of a program or course of study over multiple years at postsecondary education institutions.</p> <p>In 2015-2016, 73 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).</p> </div> </div>	12th Grade	1-Year Certificate	2-Year Associate or Technical Degree	4-Year Bachelor's Degree	More Graduate or Prof. Degree	<p>Utah Business and Industry Facts</p> <p>According to the Utah Department of Workforce Services, the broadcasting industry in Utah employs 2,091 workers.</p>																																				
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Utah Career and Technical Education Career Pathway

2018-2019 School Year



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

FCCLA is the CTSO for students in the Fashion Design, Manufacturing and Merchandising Career Pathway. FCCLA provides students with opportunities to attain the knowledge, skills, and leadership characteristics necessary to succeed in life and careers.

Workforce Trends
 Employment growth for fashion designers will stem from a growing population demanding more clothing, footwear, and accessories. The best job opportunities will be in design firms that design mass market clothing sold in department stores and retail chain stores, such as apparel wholesale firms.

Career Cluster: Arts, Audio/Visual Technology & Communication

Career Pathway: Fashion, Apparel & Textiles

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
34.01.00.00.140	Fashion Design Studio	.50	1.50 credits
Choose one of the following courses:			
34.01.00.00.090	Apparel Design and Production 1	.50	
34.01.00.00.060	Sports and Outdoor Product Design 1	.50	
Choose one of the following courses:			
34.01.00.00.092	Apparel Design and Production 2	.50	1.50 credits
34.01.00.00.062	Sports and Outdoor Product Design 2	.50	
ELECTIVE COURSES			
32.02.00.00.010	Accounting 1	.50	
34.01.00.00.145	Fashion Design Merchandising	.50	
34.01.00.00.147	Fashion Design Merchandising, Advanced *	.50	1.50 credits
34.01.00.00.080	Advanced Textile Design *	.50	
32.02.00.00.220	Entrepreneurship	.50	
40.10.00.00.048	Screen Printing Technology	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 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.

Fashion Design, Manufacturing & Merchandising is:
 > High skill
 > High wage

Sample Occupations Requiring:
High School Diploma
 > Merchandise Displayer and Window Trimmer
 > Retail Buyer
 > Wholesale Buyer

Certificate
 > N/A

Assoc. or Technical Degree
 > Fashion Design and Merchandising

Baccalaureate Degree
 > Career and Technical Education Teacher
 > Fashion Designer
 > Fashion Illustrator
 > Textile Scientist

Graduate or Prof. Degree
 > Interior Design Professor
 > Textile Science Researcher

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 takes 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

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Utah Business and Industry Facts

From theater and dance to music and acting numerous performing arts companies call Utah home, employing individuals in fashion design, fashion merchandising, costuming, technical apparel design, and custom dressmaking.

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

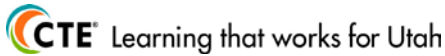
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Utah Career and Technical Education Career Pathway

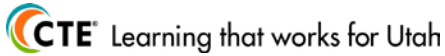
2018-2019 School Year



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Utah Career and Technical Education Career Pathway

2018-2019 School Year



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

SkillsUSA is the CTSSO for students in the Commercial Photography Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

Workforce Trends
 The number of portrait photographers is projected to increase along with the population. New opportunities should arise with Internet-based media companies, but keen competition is expected. Job candidates who possess skills in picture editing and taking digital video will have an advantage.

Career Cluster: Arts, Audio/Visual Technology & Communication

Career Pathway: Graphic Design & Communication: Commercial Photography

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
40.13.00.00.012	Basic Digital Photography *	.50	1.00 credit
40.13.00.00.015	Advanced Commercial Photography *	.50	
ELECTIVE COURSES			
40.13.00.00.001	Commercial and Advertising Art *	.50	2.00 credits
35.02.00.00.010	Digital Media 1	1.00	
40.10.00.00.040	Graphic Communications, Introduction *	.50	
40.01.00.00.005	Television Broadcasting 1 *	.50	
40.01.00.00.030	Video Production 1 *	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 credits for completion			

* Course can be taken up to 1.00 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.

Commercial Photography is:
 > High demand

Sample Occupations Requiring:
[High School Diploma](#)
 > Photographer

[Certificate](#)
 > Commercial Photographer

[Assoc. or Technical Degree](#)
 > N/A

[Baccalaureate Degree](#)
 > Camera Operator
 > Career and Technical Education Teacher

[Graduate or Prof. Degree](#)
 > Photography Professor

Student Testimonial

"High school photography courses prepared me for college and career by not only teaching me the basics and foundations, but also giving me opportunities to put [what I learned] to use. It gave me real life experience that has shown me what the field is really like. I have loved learning more about photography and plan to accomplish all my goals of becoming a professional photographer."

Camile Rhoades

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
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Utah Business and Industry Facts

From television and newspaper, to event photos, photographers are needed in various industries across Utah.

According to the Utah Department of Workforce Services, more than 1,000 individuals are employed as photographers.

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

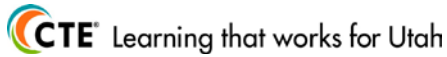
Visit UtahFutures.org for salary projections, labor market demand, and training options.

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Utah Career and Technical Education Career Pathway

2018-2019 School Year



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 Digital Media Career Pathway choose among the following CTOS, depending upon what is available at their school:
 FBLA | SkillsUSA | TSA

Workforce Trends
 Digital media is the field of the future and is rapidly growing. Because our global economy is driven by technology digital media is one of the most in-demand fields. With more than 3 billion Internet users worldwide and more than 1 billion websites, the demand for individuals skilled in digital media is high.

Career Cluster: Arts, Audio/Visual Technology & Communication

Career Pathway: Graphic Design & Communication: Digital Media

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
35.02.00.00.010	Digital Media 1	1.00	2.00 credits
<i>Choose 1.00 credit from the following courses:</i>			
35.02.00.00.075	3D Animation	.50	
35.02.00.00.070	3D Graphics	.50	
35.02.00.00.011	Digital Media 2	1.00	
ELECTIVE COURSES			
37.01.00.00.001	Digital Marketing	.50	1.00 credit
32.02.00.00.220	Entrepreneurship	.50	
35.02.00.00.045	Gaming Development Fundamentals	.50	
40.10.00.00.040	Graphic Communications, Introduction *	.50	
35.02.00.00.005	Introduction to Information Technology	.50	
35.02.00.00.060	Web Development 1	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 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.
 Visit UtahCTE.org to learn how to earn industry certification in this Career Pathway.

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.

Digital Media is:

- > High skill
- > High wage
- > High demand

Sample Occupations Requiring:

- [High School Diploma](#)
- > N/A
- [Certificate](#)
- > N/A
- [Assoc. or Technical Degree](#)
- > Web Developer
- [Baccalaureate Degree](#)
- > Career and Technical Education Teacher
- > Graphic Designer
- > Multimedia Artist and Animator
- > Software Developer
- > Web Administrator
- [Graduate or Prof. Degree](#)
- > Software Engineer

Student Testimonial
 "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

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
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Utah Business and Industry Facts
 "The talent pool of computer engineers, digital artists and animators in Utah is astounding," said WildWorks CEO Clark Stacey. "The workforce talent here is perennially refreshed not only by in-state colleges and universities, but by seasoned professionals fleeing the congestion and high cost of living in other hub cities like San Francisco and Seattle."
Silicon Slopes Magazine, Spring 2017

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

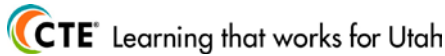
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Utah Career and Technical Education Career Pathway

2018-2019 School Year



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

SkillsUSA is the CTSO for students in the Graphics Printing Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.

Workforce Trends
 Working conditions in paper and printing manufacturing plants have become less hazardous as the industry has become more automated. Companies now use fewer chemicals and solutions resulting in fewer equipment related accidents.

Career Cluster: Arts, Audio/Visual Technology & Communication

Career Pathway: Graphic Design & Communication: Graphics Printing

CORE CODE	FOUNDATION COURSES (required)	CREDITS	
	Choose two of the following courses:		
40.10.00.00.040	Graphic Communications, Introduction *	.50	1.00 credit
40.10.00.00.042	Graphic Communications, Intermediate *	.50	
40.10.00.00.046	Digital Print Design *	.50	
40.10.00.00.044	Advanced Production Graphics *	.50	
ELECTIVE COURSES			
40.13.00.00.001	Commercial and Advertising Art *	.50	2.00 credits
40.13.00.00.020	Design and Visual Communications *	.50	
35.02.00.00.010	Digital Media 1	1.00	
40.13.00.00.030	Industrial Design *	.50	
40.10.00.00.048	Screen Printing Technology *	.50	
41.00.00.00.030	Workplace Skills	.50	
3.00 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.

Graphics/Printing is:
 > High skill
 > High wage

Sample Occupations Requiring:

High School Diploma
 > Printing Press Operator
 > Prepress Workers
 > Production Helpers

Certificate
 > N/A

Assoc. or Technical Degree
 > N/A

Baccalaureate Degree
 > Career and Technical Education Teacher
 > Graphic Designer

Graduate or Prof. Degree
 > N/A

Student Testimonial
 “Without the graphic design class I wouldn’t know what I wanted to do in college and for the rest of my life. I think I love graphic design so much because I can work hard on an assignment and then print it, so I have the opportunity to see how my work has paid off.”
 Dawson Carter

HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING

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Utah Business and Industry Facts
 According to the Utah Department of Workforce Services, the printing industry in Utah employs 4,975 workers.

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