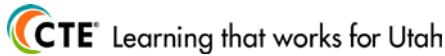


# Utah Career and Technical Education Career Pathway

## 2018-2019 School Year



<p><b>CTSO Information</b> Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.</p> <p>SkillsUSA is the CTSO for students in the Aviation Technology Career Pathway. SkillsUSA provides quality education experiences for students in leadership, teamwork, citizenship, and character development.</p> <p><b>Workforce Trends</b> Rising population and income will drive demand for airline travel and the need for commercial aviation workers. Those who have attended college for at least 2 years and have experience dealing with the public should have the best prospects.</p>	<h3 style="margin: 0;">Career Cluster: Transportation, Distribution &amp; Logistics</h3> <h4 style="margin: 0;">Career Pathway: Aviation</h4> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #00a6c9; color: white;"> <th style="text-align: left;">CORE CODE</th> <th style="text-align: left;">FOUNDATION COURSES (required)</th> <th style="text-align: center;">CREDITS</th> <th></th> </tr> </thead> <tbody> <tr> <td>40.11.00.00.042</td> <td>Aircraft Systems *</td> <td style="text-align: center;">.50</td> <td rowspan="2" style="text-align: center; vertical-align: middle;">1.00 credit</td> </tr> <tr> <td>40.11.00.00.040</td> <td>Private Pilot *</td> <td style="text-align: center;">.50</td> </tr> <tr style="background-color: #00a6c9; color: white;"> <th colspan="4" style="text-align: center;">ELECTIVE COURSES</th> </tr> <tr> <td>32.02.00.00.010</td> <td>Accounting 1</td> <td style="text-align: center;">.50</td> <td rowspan="10" style="text-align: center; vertical-align: middle;">2.00 credits</td> </tr> <tr> <td>40.11.00.00.046</td> <td>Air Transportation *</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>40.11.00.00.044</td> <td>Aviation History *</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>32.02.00.00.140</td> <td>Business Management</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>38.01.00.00.021</td> <td>Electronics 1 *</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>32.02.00.00.220</td> <td>Entrepreneurship</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>40.11.00.00.048</td> <td>Flight Simulator *</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>40.09.00.00.020</td> <td>Introduction to Automotive *</td> <td style="text-align: center;">.50</td> </tr> <tr> <td>38.01.00.00.350</td> <td>PLTW Aerospace Engineering</td> <td style="text-align: center;">1.00</td> </tr> <tr> <td>38.01.00.00.320</td> <td>PLTW Digital Electronics</td> <td style="text-align: center;">1.00</td> </tr> <tr> <td>40.11.00.00.040</td> <td>Private Pilot</td> <td style="text-align: center;">.50</td> <td></td> </tr> <tr> <td>41.00.00.00.030</td> <td>Workplace Skills</td> <td style="text-align: center;">.50</td> <td></td> </tr> <tr> <td colspan="4" style="text-align: center; background-color: #f2f2f2;"><b>3.00 credits for completion</b></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;"><b>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.</b></p>	CORE CODE	FOUNDATION COURSES (required)	CREDITS		40.11.00.00.042	Aircraft Systems *	.50	1.00 credit	40.11.00.00.040	Private Pilot *	.50	ELECTIVE COURSES				32.02.00.00.010	Accounting 1	.50	2.00 credits	40.11.00.00.046	Air Transportation *	.50	40.11.00.00.044	Aviation History *	.50	32.02.00.00.140	Business Management	.50	38.01.00.00.021	Electronics 1 *	.50	32.02.00.00.220	Entrepreneurship	.50	40.11.00.00.048	Flight Simulator *	.50	40.09.00.00.020	Introduction to Automotive *	.50	38.01.00.00.350	PLTW Aerospace Engineering	1.00	38.01.00.00.320	PLTW Digital Electronics	1.00	40.11.00.00.040	Private Pilot	.50		41.00.00.00.030	Workplace Skills	.50		<b>3.00 credits for completion</b>				<p><b>Aviation Technology is:</b></p> <ul style="list-style-type: none"> <li>&gt; High skill</li> <li>&gt; High wage</li> <li>&gt; High demand</li> </ul> <p><b>Sample Occupations Requiring:</b></p> <p style="color: #00a6c9; font-weight: bold; font-size: small;">High School Diploma</p> <ul style="list-style-type: none"> <li>&gt; Aircraft Structure, Surfaces, Rigging, and System Assembler</li> <li>&gt; Commercial Pilot</li> </ul> <p style="color: #00a6c9; font-weight: bold; font-size: small;">Certificate</p> <ul style="list-style-type: none"> <li>&gt; Aircraft Mechanic</li> <li>&gt; Aircraft Service Technician</li> </ul> <p style="color: #00a6c9; font-weight: bold; font-size: small;">Assoc. or Technical Degree</p> <ul style="list-style-type: none"> <li>&gt; Air Traffic Controller</li> </ul> <p style="color: #00a6c9; font-weight: bold; font-size: small;">Baccalaureate Degree</p> <ul style="list-style-type: none"> <li>&gt; Aircraft Co-pilot</li> <li>&gt; Aircraft Pilot</li> <li>&gt; Career and Technical Education Teacher</li> <li>&gt; Flight Engineer</li> </ul> <p style="color: #00a6c9; font-weight: bold; font-size: small;">Graduate or Prof. Degree</p> <ul style="list-style-type: none"> <li>&gt; Aviation Manager</li> </ul>
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<p><b>Student Testimonial</b></p> <p style="font-size: x-small;">“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]. I even passed my written test from the information that I learn from that class.”</p> <p style="text-align: right; font-size: x-small;">Braden Ottley</p>	<h3 style="margin: 0;">HIGH SCHOOL TO POSTSECONDARY EDUCATION AND TRAINING</h3> <p style="font-size: small; margin: 0;">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="background-color: #00a6c9; color: white; text-align: center; padding: 5px;"><b>12th Grade</b></td> <td style="background-color: #f4a460; color: white; text-align: center; padding: 5px;"><b>1-Year Certificate</b></td> <td style="background-color: #92d050; color: white; text-align: center; padding: 5px;"><b>2-Year Associate or Technical Degree</b></td> <td style="background-color: #f4c400; color: white; text-align: center; padding: 5px;"><b>4-Year Bachelor's Degree</b></td> <td style="background-color: #808080; color: white; text-align: center; padding: 5px;"><b>More Graduate or Prof. Degree</b></td> </tr> </table> <div style="display: flex; justify-content: space-between; font-size: x-small;"> <div style="width: 45%; padding: 5px;"> <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%; padding: 5px;"> <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>	<b>12th Grade</b>	<b>1-Year Certificate</b>	<b>2-Year Associate or Technical Degree</b>	<b>4-Year Bachelor's Degree</b>	<b>More Graduate or Prof. Degree</b>	<p><b>Utah Business and Industry Facts</b></p> <p style="font-size: x-small;">According to the Utah Department of Workforce Services, air transportation companies in Utah employ 6,316 workers.</p> <p style="font-size: x-small;">In Utah, an aircraft mechanic, an aircraft service technician, and an aircraft pilot must be licensed.</p>																																																					
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<p style="text-align: center; color: #00a6c9; font-weight: bold; font-size: small;">CTE Skill Certificates</p> <p style="font-size: x-small;">Competency-based student assessments, measured by core standards and competencies needed to be successful in the workforce.</p>	<p style="font-weight: bold; font-size: small;">UtahFutures: College and Career Planning</p> <p style="font-size: x-small;">Visit <a href="http://UtahFutures.org" style="color: #00a6c9;">UtahFutures.org</a> for salary projections, labor market demand, and training options.</p>																																																											
<p>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.</p>	<p>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.</p>																																																											