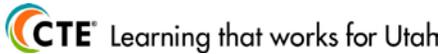


# Utah Career and Technical Education Career Pathway

## 2018-2019 School Year



| <p><b>CTSO Information</b><br/>Career and Technical Student Organizations (CTSO) align with the national Career Clusters® and the Utah CTE Career Pathways.</p> <p>Students who participate in the Network and IT Support Career Pathway choose among the following CTOS, depending upon what is available at their school:<br/>FBLA   SkillsUSA   TSA</p> <p><b>Workforce Trends</b><br/>Growth will be driven by rapid increases in the computer and data processing services industry.</p> <p>In Utah, the average annual employment growth rate for computer systems analysts is 5 percent through the year 2024.</p> <p>According to the Utah Technology Council, IT occupations account for \$6.9 billion (14.3 percent) of Utah's total payroll.</p> | <h3 style="margin: 0;">Career Cluster: Information Technology</h3> <h4 style="margin: 0;">Career Pathway: Information Technology Systems</h4> <table border="1" style="width: 100%; border-collapse: collapse; margin: 10px 0;"> <thead> <tr style="background-color: #00a651; color: white;"> <th style="width: 15%;">CORE CODE</th> <th style="width: 55%;">FOUNDATION COURSES (required)</th> <th style="width: 30%;">CREDITS</th> </tr> </thead> <tbody> <tr> <td colspan="3" style="text-align: center; background-color: #00a651; color: white;"><i>Choose 2.00 credits from the following courses:</i></td> </tr> <tr> <td>35.01.00.00.040</td> <td>A+ (Computer Maintenance)</td> <td>1.00</td> </tr> <tr> <td>35.01.00.00.010</td> <td>Cisco Certified Network Administrator (CCNA)</td> <td>1.00</td> </tr> <tr> <td>35.01.00.00.025</td> <td>Linux Fundamentals</td> <td>1.00</td> </tr> <tr> <td>35.01.00.00.030</td> <td>Network Fundamentals</td> <td>.50</td> </tr> <tr> <td colspan="3" style="text-align: center; background-color: #00a651; color: white;"><b>ELECTIVE COURSES</b></td> </tr> <tr> <td>35.02.00.00.021</td> <td>Database Development</td> <td>1.00</td> </tr> <tr> <td>35.02.00.00.005</td> <td>Introduction to Information Technology</td> <td>.50</td> </tr> <tr> <td>35.01.00.00.020</td> <td>Microsoft Certified Professional</td> <td>1.00</td> </tr> <tr> <td>35.01.00.00.036</td> <td>Security Fundamentals</td> <td>.50</td> </tr> <tr> <td>41.00.00.00.030</td> <td>Workplace Skills</td> <td>.50</td> </tr> <tr> <td colspan="3" style="text-align: center; background-color: #00a651; color: white;"><b>3.00 credits for completion</b></td> </tr> </tbody> </table> <p style="font-size: small; margin: 0;">Foundation courses taken beyond the required credits can be used as elective credit. Visit <a href="http://UtahCTE.org">UtahCTE.org</a> to learn how to earn industry certification in this Career Pathway.</p> <p style="text-align: center; margin: 0;"><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   | <i>Choose 2.00 credits from the following courses:</i> |                               |  | 35.01.00.00.040  | A+ (Computer Maintenance)  | 1.00   | 35.01.00.00.010  | Cisco Certified Network Administrator (CCNA)            | 1.00  | 35.01.00.00.025   | Linux Fundamentals  | 1.00  | 35.01.00.00.030   | Network Fundamentals | .50 | <b>ELECTIVE COURSES</b> |  |  | 35.02.00.00.021 | Database Development | 1.00 | 35.02.00.00.005 | Introduction to Information Technology | .50 | 35.01.00.00.020 | Microsoft Certified Professional | 1.00 | 35.01.00.00.036 | Security Fundamentals | .50 | 41.00.00.00.030 | Workplace Skills | .50 | <b>3.00 credits for completion</b> |  |  | <p><b>Network &amp; IT Support is:</b><br/>&gt; High skill<br/>&gt; High wage<br/>&gt; High demand</p> <p><b>Sample Occupations Requiring:</b><br/><a href="#">High School Diploma</a><br/>&gt; N/A<br/><a href="#">Certificate</a><br/>&gt; N/A<br/><a href="#">Assoc. or Technical Degree</a><br/>&gt; Computer Network Support Specialist<br/><a href="#">Baccalaureate Degree</a><br/>&gt; Career and Technical Education Teacher<br/>&gt; Computer Network Architect<br/>&gt; Computer and Information Systems Manager<br/>&gt; Computer Systems Analyst<br/>&gt; Database Administrator<br/>&gt; Network and Computer Systems Administrator<br/><a href="#">Graduate or Prof. Degree</a><br/>&gt; Computer and Information Research Scientist</p> |
|---|--|---|---|---|--|-------------------------------|--|--|--|--|--|---|---|---|---|---|---|----------------------|-----|-------------------------|--|--|-----------------|----------------------|------|-----------------|--|-----|-----------------|----------------------------------|------|-----------------|-----------------------|-----|-----------------|------------------|-----|------------------------------------|--|--|---|
| CORE CODE   | FOUNDATION COURSES (required)  | CREDITS   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| <i>Choose 2.00 credits from the following courses:</i>  |  |   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.040   | A+ (Computer Maintenance)  | 1.00  |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.010   | Cisco Certified Network Administrator (CCNA)   | 1.00  |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.025   | Linux Fundamentals   | 1.00  |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.030   | Network Fundamentals   | .50   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| <b>ELECTIVE COURSES</b>   |  |   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.02.00.00.021   | Database Development   | 1.00  |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.02.00.00.005   | Introduction to Information Technology   | .50   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.020   | Microsoft Certified Professional   | 1.00  |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 35.01.00.00.036   | Security Fundamentals  | .50   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 41.00.00.00.030   | Workplace Skills   | .50   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| <b>3.00 credits for completion</b>  |  |   |   |   |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| <p><b>Student Testimonial</b><br/>"This program helped me earn many industry-level certifications including: CompTIA, IT Strata Fundamentals, IC3, Microsoft Technical Associate (MIT), OS Fundamentals, and Security and Academy of Information Technology certifications."<br/><br/>Parker Kingsford</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;"> <thead> <tr> <th style="width: 15%; background-color: #00a651; color: white;">12th Grade</th> <th style="width: 15%; background-color: #ff9900; color: white;">1-Year Certificate</th> <th style="width: 15%; background-color: #99cc33; color: white;">2-Year Associate or Technical Degree</th> <th style="width: 15%; background-color: #ffcc00; color: white;">4-Year Bachelor's Degree</th> <th style="width: 15%; background-color: #999999; color: white;">More Graduate or Prof. Degree</th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">Certificates are awarded upon the successful completion of a brief course of study, usually one year or less. 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Forbes ranked six Utah tech companies in the top 100 and three of the Utah tech companies were ranked in the top 20—Qualtrics (No.6), Domo (15), Pluralsight (20), Workfront (58), Health Catalyst (64), and InsideSales (92).</p> |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
| 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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| <p style="text-align: center; font-size: small; color: #00a651;"><b>CTE Skill Certificates</b></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-size: small; color: #333;"><b>UtahFutures: College and Career Planning</b></p> <p style="font-size: x-small;">Visit <a href="http://UtahFutures.org">UtahFutures.org</a> for salary projections, labor market demand, and training options.</p>   |   |   | <p style="font-size: x-small;">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> |  |                               |  |  |  |  |  |   |   |   |   |   |   |                      |     |                         |  |  |                 |                      |      |                 |  |     |                 |                                  |      |                 |                       |     |                 |                  |     |                                    |  |  |   |
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