

# High School to College and Career Pathway: Secondary Career and Technical Education

## Information Technology Education Pathways

Digital Media

Network and IT Support

Programming Software  
Development

Web Development  
and Administration

### Pathway: Digital Media

**Foundation Courses:**  
(2.00 credits required)

Digital Media 1 – 1.00

**Choose 1.00 credit from the following  
courses:**

- 3D Animation – .50
- 3D Graphics – .50
- Digital Media 2 – 1.00

**Elective Courses:**  
(1.00 credit required)

- Basic Digital Photography – .50
- Business Web Design – .50
- Commercial and Advertising Art – .50
- Digital and Visual Communications – .50
- Digital Marketing – .50
- Entrepreneurship – .50

- Gaming Fundamentals – .50
- Gaming Fundamentals 2 – .50
- Information Technology, Introduction – .50
- Intro to Graphic Communications – .50
- Television Broadcasting 1 – .50
- Video Production 1 – .50
- Workplace Skills – .50

**3.00 credits required for completion**



### Pathway: Network and IT Support

**Foundation Courses:**  
(2.00 credits required)

- A+ (Computer Maintenance) – 1.00
- Cisco Certified Network Administrator (CCNA) – 1.00
- Information Technology, Intro – .50
- Linux Fundamentals – 1.00
- Microsoft Certified Professional (MCP) – 1.00
- Network Fundamentals – .50

**Elective Courses:**  
(1.00 credit required)


- Certified Linux Administration – 1.00
- Microsoft Certified Professional – 1.00


- Security Fundamentals – .50
- Workplace Skills – .50

**3.00 credits required for completion**



# Information Technology Education Pathways (continued)

Pathway: Programming/Software Development		
<p><b>Foundation Courses:</b> (2.00 credits required)</p> <p><b>Choose 1.00 credit from the following courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Computer Science Principles – 1.00</li> <li><input type="checkbox"/> Computer Programming 1 – 1.00</li> <li><input type="checkbox"/> PLTW Computer Science and Software Engineering – 1.00</li> </ul> <p><b>Choose 1.00 credit from the following courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> AP Computer Science – 1.00</li> <li><input type="checkbox"/> Computer Programming 2 – 1.00</li> <li><input type="checkbox"/> Database Development 1 – 1.00</li> <li><input type="checkbox"/> Exploring CS – .50</li> <li><input type="checkbox"/> Gaming Dev. Fundamentals – .50</li> <li><input type="checkbox"/> Mobile Dev. Fundamentals – .50</li> <li><input type="checkbox"/> PLTW Computer Science Applications – 1.00</li> </ul>	<p><b>Elective Courses:</b> (1.00 credit required)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Algorithms and Data Structuring – 1.00</li> <li><input type="checkbox"/> Entrepreneurship – .50</li> <li><input type="checkbox"/> Exploring Computer Science 2 – .50</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Gaming Development Fundamentals 2 – .50</li> <li><input type="checkbox"/> Information Technology, Introduction – .50</li> <li><input type="checkbox"/> Workplace Skills – .50</li> </ul> <p style="text-align: center;"><b>3.00 credits required for completion</b></p>
		

Pathway: Web Development and Administration		
<p><b>Foundation Courses:</b> (1.50 credits required)</p> <p>Web Development 1 – 1.00</p> <p><b>Choose 1.00 credit from the following courses:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> HTML5 App Development Fundamentals. – 1.00</li> <li><input type="checkbox"/> Web Development 2 – 1.00</li> </ul>	<p><b>Elective Courses:</b> (1.50 credits required)</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Business Web Design, Advanced – .50</li> <li><input type="checkbox"/> Database Development 1 – 1.00</li> <li><input type="checkbox"/> Digital Marketing – 1.00</li> <li><input type="checkbox"/> Entrepreneurship</li> </ul>	<ul style="list-style-type: none"> <li><input type="checkbox"/> Geographic Information Systems (GIS) Remote Sensing – 1.00</li> <li><input type="checkbox"/> Information Technology, Introduction – .50</li> <li><input type="checkbox"/> Workplace Skills – .50</li> </ul> <p style="text-align: center;"><b>3.00 credits required for completion</b></p>
		

- > Foundation courses taken beyond the required credits can be used as elective credit.
- > Core curriculum and elective requirements may vary district to district.
- > Many CTE courses may qualify for concurrent enrollment credit, which in some cases may earn up to 1.0 credit toward Pathway completion. Talk to your school counselor about availability.
- > Many Utah postsecondary programs accept high school courses toward a two- or four-year degree through concurrent enrollment. Check regional postsecondary Pathways for details.
- > Visit [UtahCTE.org](http://UtahCTE.org) for additional information.