

Pathway Options	Description
Networking	Networking is designed to emphasize the conceptual and practical skills necessary to design, manage, and diagnose network hardware and software. Upon completion of this course, proficient students will identify types of networks, understand the layers of the open systems interconnection (OSI) model, prevent security risks, and apply troubleshooting theory to the successful execution of networking tasks. Course content covers transmission control protocol, internet protocol, wired and wireless topologies, switching and routing, network hardware, wireless networking, and network operating systems (NOS). Upon completion of this course, proficient students will be prepared to sit for the CompTIA Network+ exam.
Coding	Coding is a course intended to teach students the basics of computer programming. The course places emphasis on practicing standard programming techniques and learning the logic tools and methods typically used by programmers to create simple computer applications. Upon completion of this course, proficient students will be able to solve problems by planning multistep procedures; write, analyze, review, and revise programs, converting detailed information from workflow charts and diagrams into coded instructions in a computer language; and will be able to troubleshoot/debug programs and software applications to correct malfunctions and ensure their proper execution.

Grade	English	Math	Science	Social Studies	Required CTE Course	Required Elective Course(s)
9th	<i>English I</i>	<i>Algebra I</i>	Physical Science	World History	<i>Computer Science Foundations</i>	
10th	English II	Geometry	<i>Biology</i>		<i>Coding I Or Computer Systems</i>	<i>Spanish I</i>
11th	English III	<i>Algebra II</i>	<i>Physics</i>	SDC American History	<i>Coding I Or Networking</i>	
12th	<i>English IV</i>	Statistics		<i>Economics &amp; Government</i>	<i>AP Computer Science Principles and/or Work-Based Learning</i>	

\*Class typed in *red* are cohorted as a Future Ready Institute. Meaning, 80% or more of students in those classes participate in the same institute. Chorted core classes give teachers the opportunity to teach their academic standards through the lens of a career pathway.

**Early Post Secondary Opportunities (May be provided by the school)**

<b>Dual Credit Offerings:</b> <ul style="list-style-type: none"><li>● LDC Coding</li><li>● LDC Networking</li></ul>	<b>Industry Certification Opportunities:</b> <ul style="list-style-type: none"><li>● OSHA 10</li><li>● Comptia A+</li><li>● Comptia Network +</li><li>● CCNA</li></ul>
<b>Advance Placement Offerings:</b> <ul style="list-style-type: none"><li>● Computer Science Principles</li></ul>	