

This SHS program of study, in partnership with Bates Technical College, provides networking courses through the Cisco Networking Academy. Computer software and hardware principles are the foundation of this program. The online Cisco curriculum includes the latest technology information for home, ISP (Internet Service Provider), and business use. The course includes a virtual networking environment that allows the student to build, configure, and troubleshoot network equipment. Students will also learn network design principles. Successful completion of this program may lead to industry standard certification. Students leave well prepared for employment or future education.



## Post-secondary Partners

- Bates Technical College
- Clover Park Technical College
- Green River Community College
- Highline Community College
- Pierce College District
- Pierce County Careers Connection
- Renton Technical College
- South King County Tech Prep
- Tacoma Community College



## Sumner School District

*...a great place to learn!*

Career and College Readiness  
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## Networking

Careers in Network Systems involve network analysis, planning and implementation; including design, installation, maintenance and management of network systems. Successful establishment and maintenance of information technology infrastructure is critical to the success of almost every 21st century organization. People with expertise in Network Systems are in high demand for a variety of positions in organizations of all sizes and types, doing work such as creating and maintaining the infrastructure in medical facilities that enables multiple doctors to view the same patient's X-rays in real-time to determine the diagnosis and the best treatment.





# PROGRAM OF STUDY: Sumner School District

**Cluster: Information Technology**

**Pathway: Networking Technology**

*This Program of Study, along with other career planning materials, can serve as a guide as learners continue on a career path. Courses listed are only recommended and plans should be individualized to meet each learner's educational and career goals. Students should recognize that these are guidelines only and post-secondary requirements may change.*

	Year	English	Math	Science	Other Required Courses	Career Focus Area Courses	Sample Occupations Relating To This Pathway
<b>SECONDARY</b>	9	9 <sup>th</sup> Grade English	Algebra	Physical Lab Science	Career & Tech (Occupational Ed) Health & Fitness	Cisco Discovery I & II Cisco Discovery III & IV	<b>Requiring Less than a Baccalaureate degree</b> <ul style="list-style-type: none"> <li>Network Technician</li> <li>Server Technician</li> <li>PC Repair Technician</li> <li>Network Analyst</li> <li>Security Analyst</li> <li>Wiring Technician</li> <li>Game Programmer</li> <li>Computer Programmer</li> </ul>
	10	10 <sup>th</sup> Grade English	Geometry	Biology Chemistry or Physics	US History or Social Studies Elective Fine, Visual or Performing Arts	Entrepreneurship Fundamentals of IT Intro to Business and Marketing	
	11	11 <sup>th</sup> Grade English	Advanced Algebra or Computer Programming	Biology Chemistry or Physics	Social Studies Elective or US History Fitness Elective	Introduction to Programming IT Essentials (A+) Software Applications	
	12	12 <sup>th</sup> Grade English	Financial Math or Pre-Calculus		Contemporary World	World Language (year I and II)	
<b>Washington State History &amp; Tech Competency. Include in high school plan if requirement not met in middle school</b>							<b>Requiring Baccalaureate Degree</b> <ul style="list-style-type: none"> <li>Network Administrator</li> <li>Server Administrator</li> <li>Security Administrator</li> </ul>
Secondary Leadership and Employability Standards are included.							
<b>POST-SECONDARY</b>	Contact postsecondary institutions directly for complete program options and requirements.						
	Year 13/14	<b>Bates:</b> Information Technologies Specialist, Computer Repair and Network, Computer Networking System Technician, Software Development <b>Clover Park :</b> Computer Networking & Information Systems Security, Computer Information Technology <b>Green River:</b> Information Technology <b>Highline:</b> Computer Science\Computer Information Systems <b>Pierce:</b> Computer Information Systems, Computer Network Engineering <b>Renton:</b> Computer Network Technology, Computer Science <b>TCC:</b> Networking and Convergence Technologies					<b>Requiring more than Baccalaureate</b> <ul style="list-style-type: none"> <li>Information systems Administrator</li> <li>Director of Information Systems</li> </ul>
Year 15/16	<b>EWU:</b> Computer Science <b>CWU:</b> Computer Science <b>WWU:</b> Computer Science <b>WSU:</b> Management Information Systems, Computer Science <b>UW:</b> Computer Science						

**Sumner School District graduation requirements, dual credit courses, required for 4-year colleges**