CISCO III: ENTERPRISE NETWORKING, SECURITY, AND AUTOMATION. ARTICULATION

Pierce County Careers Connection

Dual Credit Articulation Agreement

Upon completion of high school courses or equivalent to the following competencies:

☐	In Enterprise Networking, Security, and Automation, you will take the skills and knowledge that you learned in ITN and SWRE and apply them to wide area networks (WANs). WANs are large, complex networks that require advanced understanding of network operation and security. ENSA also introduces you to two game-changing areas of networking: virtualization and automation. By the end of this course you will be able to configure, troubleshoot, and secure enterprise network devices. You will be versed in application programming interfaces (APIs) and the configuration management tools that make network automation possible. Students who complete this course will be able to perform the following functions:
	Configure and troubleshoot routers in a complex routed IPv4 or IPv6 network using single-area OSPF.
	Understand and describe best practices for protecting a network.
	Understand, describe, and configure IPV4 standard and extended Access Control Lists.
	Understand, configure, and troubleshoot Network Address Translation (NAT).
	Understand and describe how enterprises access Wide Area Networks (WAN).
	Understand and describe network virtualization and the importance of cloud computing.
	Understand and describe how network automation is enabled through RESTful APIs.

A student earning a "C" grade or better may earn college credit at the following college:

College		
Bates Technical College	CNST 212	5
Clover Park Technical College	N0S 220	4
Pierce College	CNE 243	5

Revised: 9/2020