CISCO III: SCALING NETWORKS ARTICULATION

Pierce County Careers Connection

Dual Credit Articulation Agreement

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

☐	This course describes the architecture, components, and operations of routers and switches in larger and more complex networks. Students learn how to configure routers and switches and resolve common issues with OSPF, EIGRP, and STP in both IPv4 and IPv6 networks. Students will also develop the knowledge and skills needed to implement a WLAN in a small –to-medium network. Students who complete this course will be able to perform the following functions:
	Understand, configure, and troubleshoot enhanced switching technologies such as VLANs, Rapid Spanning Tree Protocol (RSTP), Per VLAN Spanning Tree Plus Protocol (PVST+), and EtherChannel.
	Understand, configure, and troubleshoot first hop redundancy protocols (HSRP) in a switched network.
	Understand, configure, and troubleshoot wireless routers and wireless clients.
	Configure and troubleshoot routers in a complex routed IPv4 or IPv6 network using single-area OSPF, multi-area OSPF, and Enhanced Interior Gateway Routing Protocol (EIGRP).
	Manage CISCO IO Software licensing and configuration files.

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	NSSC 203	5
Pierce College	CNE 243	5

Revised: 7/2019 Bates Added 12/2019