CISCO I: INTRODUCTION TO NETWORKS ARTICULATION

Pierce County Careers Connection
Dual Credit Articulation Agreement

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

☐	**This course introduces the architecture, structure, functions, components, and models of the Internet and other computer networks. The principles and structure of IP addressing and the fundaments of Ethernet concepts, media and operations are introduced to provide a foundation for the curriculum. By the end of the course, students will be able to build simple LANs, perform basic configurations for routers and switches, and implement IP addressing schemes. Upon completion, students will be able to perform the following functions.**
	Understand and describe the devices and services used to support communications in data networks and the Internet.
	Understand and describe the role of protocol layers in data networks.
	Understand and describe the importance of addressing and naming schemes at various layers of data networks in IPv4 and IPv6 environments.
	Design, calculate and apply subnet masks and addresses to fulfill given requirements in IPv4 and IPv6 networks.
	Explain fundamental Ethernet concepts such as media, services and operations.
	Build a simple Ethernet network using routers and switches.
	Use CISCO command-line interface (CLI) commands to perform basic router and switch configurations.
	Utilize common network utilities to verify small network operations and analyze data traffic.

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

College	Course	Credits
Bates Technical College	CNST 201	5
Clover Park Technical College	NSS 109	5
Pierce College	CNE 241	5

Revised: 5/2017