

CISCO III
College Credit and Careers Network
Dual Credit Articulation Agreement

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

Learning Outcomes

- Explain network segmentation by the use of routers, switches and bridges.
- Describe virtual Local Area Networks (VLAN) and Spanning Tree Protocol.
- Perform simple hardware and software configuration of a switch.
- Explain the theory and benefits of VLANs.
- Configure a VLAN on a switch.
- Create site wiring diagrams and physical and logical topologies for a network.
- Configure a router using the Routing Information Protocol (RIP) and the Interior Gateway Routing Protocol (IGRP).
- Configure and implement standard and extended Access Control Lists (ACL).
- Configure and monitor basic Internet Packet Exchange (IPX) operations.

Course Content

- The OSI Reference Model and Routing
 - LAN Switching
 - VLANs
 - LAN Design
 - Routing Protocols: IGRP
 - ACLs
 - Novell IPX
 - Network Management
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A student earning a “B” or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Bellevue College	NSCOM 203	5
Cascadia Community College	BIT 232	5