Montgomery County Community College CIS 171 Switching, Routing and Wireless Essentials (Cisco Semester 2) 3-2-2

	of a router, routing tables, and the route lookup process.	In-Class Labs on CISCO Equipment Supplemented by Packet Tracer Labs Assignments	Hands-on Labs Packet Tracer Labs Exam
5.	Configure IP, static and default routing.	Reading Lecture/Discussion In-Class Labs on CISCO Equipment Supplemented by Packet Tracer Labs Assignments	Discussion/Questions Chapter Tests Hands-on Labs Packet Tracer Labs Exam
6.	Configure routers using a variety of technologies and protocols which will include wireless, virtual and inter-VLAN routing.	Reading Lecture/Discussion In-Class Labs on CISCO Equipment Supplemented by Packet Tracer Labs Assignments	Discussion/Questions Chapter Tests Hands-on Labs Packet Tracer Labs Exam
7.	Troubleshoot problems with switches and routers using a variety of technologies and protocols.	Reading Lecture/Discussion In-Class Labs on CISCO Equipment Supplemented by Packet Tracer Labs Assignments	Discussion/Questions Chapter Tests Hands-on Labs Packet Tracer Labs Exam
8.	Explain the security vulnerabilities related to routing configuration and mechanisms to protect against these threats.	Reading Lecture/Discussion In-Class Labs on CISCO Equipment Supplemented by Packet Tracer Labs Assignments	Discussion/Questions Chapter Tests Hands-on Labs Packet Tracer Labs Exam

At the conclusion of each semester/session, assessment of the learning outcomes will be completed by course faculty using the listed evaluation method(s). Aggregated results will be submitted to the Director of Educational Effectiveness. The benchmark for each learning outcome is that 70% of students will meet or exceed outcome criteria.

SEQUENCE OF TOPICS:

1. Basic <u>Device</u> Configuration

Configure a Switch with Initial Settings
Configure Switch Ports
Secure Remote Access
Configure Basic Router Settings

15. IP Static Routing

Configure IP Static Routes

Configure IP Default Static

Routes

Configure Floating Static Routes

Configure Static Host Routes

16. Troubleshoot Static and Default Routes

Packet Processing with Static Routes
Troubleshoot IPv4 Static and Default Route Configuration

LEARNING MATERIALS:

Online curriculum and assessments from Cisco Academy web portal. Provided to students with no additional charge.

(Optional)

Routing and Switching Essentials Cisco Press, 2017- ISBN-13: 978-1-58713-427-2

COURSE APPROVAL:

Prepared by: Alan Evans Date: 3/2001 Revised by: Anil Datta Date: 8/1/2013