

Inver Hills Community College

ITC 2515: Introduction to Networks and Routing and Switching Essentials (CCNA 1/2)

A. COURSE DESCRIPTION

Credits: 6

Lecture Hours/Week: 4

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Introduces the architecture, structure, functions, components, and models of the Internet and other computer networks as well as the configuration of basic router and switch protocols and configuration. The fundamentals of IP addressing, Ethernet, router and switch configuration are practiced through hands-on lab work. By the end of this course, students will be able to configure and troubleshoot routers and switches and resolve common issues with RIPv1, RIPv2, RIPv3, RIPv4, RIPv5, RIPv6, single-area and multi-area OSPF, virtual LANs, and inter-VLAN routing in both IPv4 and IPv6 networks.

B. COURSE EFFECTIVE DATES: 07/01/2016 - 07/30/2020

C. OUTLINE OF MAJOR CONTENT AREAS

None

D. LEARNING OUTCOMES (General)

None

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted