

North Central Michigan College

NCMC MASTER COURSE SYLLABUS

Last Date Revised 11/30/2010

INSTRUCTIONAL AREA: Business and Technology

DEPARTMENT: Information Technologies

ASSOCIATE DEAN: Robert Marsh, Ph.D.

ORIGINATOR: Fred Harrington

DEAN OF INSTRUCTION: Christine Hammond, Ph.D.

COURSE ALPHA/NUMBER: IT 201

COURSE TITLE: Cisco Wide Area Networks

HOURS OF INSTRUCTION:

Credit hours: 3

Lecture: 3

Lab: 0

Clinical: 0

Variable Hours: 0

Total Hours of Instruction: 3

Total Contact Hours: 52.8

(Total Contact Hours Formula: (lecture hours + lab hours) x 17.6

CATALOG DESCRIPTION:

The Cisco Certified Network Associate (CCNA) Exploration Routing Protocols and Concepts course will help you develop an understanding of how a router learns about remote networks and determines the best path to those networks. Both static routing and a variety of dynamic routing protocols will be used in hands on experiments. You will use simulators and hands on experiments to solidify knowledge gained in online tutorials. This course will prepare you for the ICND2 section of the CCNA Certification.

PREREQUISITE(S): IT 190

COREQUISITE(S):

GENERAL EDUCATION DISTRIBUTION AREA:

Communications, Writing

Natural Science Group A

Communications, Communications

Natural Science Group B

Humanities Group A

Social Science Group A

Humanities Group B

Social Science Group B

Mathematics

Non Applicable

GENERAL EDUCATION OUTCOMES:

- ___ Write and Speak Effectively
- ___ Think Critically & Analytically
- ___ Write & Speak Effectively and Think Critically & Analytically
- _x_ Non Applicable

COURSE OBJECTIVES AND OUTCOMES:

Describe common wide area network (WAN) components
 Describe and implement common WAN protocols
 Describe WAN services and security processes
 Implement and test a WAN

METHODS OF INSTRUCTION:

Online lectures, simulations and hands on lab exercises

METHODS OF EVALUATION:

Lab demonstration, quizzes and final examination

REQUIRED TEXT AT TIME OF COURSE ADOPTION/REVISION:

TEXTS: Course Booklet for CCNA Exploration Accessing the WAN, Version 4.01 - Cisco Networking Academy, Cisco Press, 2010

OPTIONAL SUPPLEMENTARY MATERIALS:

Reasonable accommodations can be provided for students with documented disabilities. Please contact Learning Support Services for assistance: (231)348-6817.

SUGGESTED TIME ALLOWANCE AND SEQUENCE OF INSTRUCTION:

(List general content description of what is being covered each week)

(If you need more than one line for a week, hit enter at the end of row; second line will begin)

WEEK 1	Introduction
WEEK 2	Wide area networks
WEEK 3	Wide area networks
WEEK 4	PPP
WEEK 5	Frame relay
WEEK 6	Network security
WEEK 7	ACLs
WEEK 8	Teleworker services
WEEK 9	IP addressing
WEEK 10	IP addressing
WEEK 11	Network trouble shooting

WEEK 12	Project to end of semester
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APPROVED FOR ADOPTION/REVISION BY THE CRD/AP COMMITTEE ON ____1/17/11____