

Revised: Fall 2016

ITN 109

Internet and Network Foundation

COURSE OUTLINE

Prerequisites:

none

Course Description:

This course provides extensive instruction for the technical knowledge required for installation, configuration, and administration, monitoring, and troubleshooting of Network Infrastructure services such as NDS, DHCP, WINS, RRAS, NAT, and Certificate Authority to support the network infrastructure.

Semester Credits: 3 Lecture Hours: 3 Lab/Recitation Hours: Select Hours

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Course Outcomes

At the completion of this course, the student should be able to:

- Understand the concepts of the Internet, intranet, and extranet
- Understand local area networks (LANs).
- Understand wide area networks (WANs).
- Understand wireless networking.
- Understand network topologies and access methods.
- Understand switches.
- Understand routers.
- Understand media types.
- Understand the OSI model
- Understand IPv4
- Understand IPv6.
- Understand name resolution.
- Understand networking services.
- Understand TCP/IP.

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Required Materials:

Textbook:

Exam 98-366: MTA Networking Fundamentals 1st Edition
by Microsoft Official Academic Course
Publisher: Wiley; 1 edition (February 15, 2011)
ISBN-10: 0470901837
ISBN-13: 978-0470901830

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Topical Description: (Outline chapters and sections to be covered in the book – may include timeline)

- Understanding Local Area Networking
- Defining Networks with the OSI model
- Understanding Wired and Wireless Networks
- Understanding Internet Protocol
- Understanding IPv4 Subnetting
- Implementing TCP/IP in the Command Line
- Working with Networking Services
- Understanding Wide Area Networking
- Defining Network Infrastructures and Network Security

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Notes to Instructors

(List information about optional topics, departmental exams, etc.)

1. All instructors are to use the same textbook
2. All course sections are to follow the same basic course outline
3. All hybrid sections must allow for students to complete the labs during regular class time

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