

**ITNW 1325
Fundamentals of Networking**

Western Texas College

- I. Basic Course Information
 - A. Course Description: Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.
 - B. Required Prerequisite: None
- II. Student Learning Outcomes
 - A. Identify and use network transmission media;
 - B. explain the OSI model;
 - C. identify the characteristics of network topologies and protocols;
 - D. identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems;
 - E. distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) and identify the components used to expand a LAN into a WAN.
- III. Testing Requirements
 - A. The final exam must be proctored. (ask your instructor for more details)
- IV. Major Course Requirements
 - A. Lab Assignments 30%
 - B. Exams 15%
 - C. Project 20%
 - D. Final 35%
- V. Information on Books
 - A. Required Book: Networking Basics, 2nd Ed., Ciampa; ISBN: 0-619-05582-0
- VI. Other Policies, Procedures and important dates. Please refer to the [WTC Catalog](#) for the following:
 - A. Campus Calendar
 - B. Final Exam Schedule
 - C. How to drop a class
 - D. Withdrawal Information
 - E. Student Conduct/Academic Integrity
 - F. Class Attendance
 - G. Student with disabilities

Course Content

	Chapter Description
	Course instructions & discussion

Lesson 1	INTRODUCTION TO NETWORKING
Lesson 2	NETWORK MEDIA
	Exam week
Lesson 3	NETWORK DESIGN
Lesson 4	NETWORK ARCHITECTURES
Lesson 5	PROTOCOLS & NETWORK SOFTWARE
	Labs & go over project
Lesson 8	MANAGING A LOCAL AREA NETWORK
	Exam week
Lesson 9	WIDE AREA NETWORKS
	CABLES LABS
	EXAM WEEK
	Project
Review	
Final	

***Disclaimer: Assignments due to change by instructor

Last Modified: October 9, 2017