



ITNW 1325 – Fundamentals of Networking Technology

Course Syllabus: Summer 2017

“Northeast Texas Community College exists to provide responsible, exemplary learning opportunities.”

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PLEASE USE BLACKBOARD MAIL FOR CLASS CORRESPONDENCE

Office Hours	Monday	Tuesday	Wednesday	Thursday	Friday	Online
	8-6	8-6	8-6	8-6	8-12	Upon Request

The information contained in this syllabus is subject to change without notice. Students are expected to be aware of any additional course policies presented by the instructor during the course.

Catalog Course Description:

Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

Prerequisites:

No formal course prerequisites, but students should understand how to access the Internet via a web browser.

Required Textbook(s):

West, J., Dean, T., Andrews, J., *Network+ Guide to Networks*, Loose-Leaf Version, 7th
+ MindTap® Computing, 1 term (6 months) Printed Access Card ISBN 9781337756525

Recommended Reading(s):

Additional weekly reading assignments may be made as part of the weekly notes. These “readings” may be from the Internet, and may be text, video, or audio in nature.

Resources:

Computers and computer labs assistants are available in IT 112. The LRC has computers available for students but with limited or no assistance. Assignments will be submitted in electronic form through BlackBoard; therefore minimal printing will be required.

Your instructor can be your greatest resource. Your instructor is here to assist you in learning the material and helping you earn the grade you wish to earn in the course. This is a commitment by your instructor. Please utilize this resource by contacting him with any matter you feel he can assist you with, both within this class or your college success in general. It is your responsibility to learn the material, but this can often be best accomplished by initiating contact with the instructor on topics you need clarification or further assistance. Please do this!

Student Learning Outcomes:

1. Students will be able to identify and use network transmission media.
2. Students will be able to explain the OSI model.

3. Students will be able to identify the characteristics of network topologies and protocols.
4. Students will be able to identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems.
5. Students will be able to distinguish between Local Area Networks (LANs) and Wide Area Networks (WANs) and identify the components used to expand a LAN into a WAN.

Exemplary Educational Objectives:

N/A

SCANS Skills:

This course addresses the Secretaries Commission on Achieving Necessary Skills (SCANS). By successfully demonstrating mastery of the Student Learning Outcomes listed above, the student will have addressed the following SCANS competencies:

C1, C5, C6, C7, C8, C12, C13, C14, C15, C18, C19, C20
F1, F2, F3, F5, F7, F8, F9, F10, F11, F12, F13, F15, F16, F17

For a complete list of SCANS competencies and descriptions, please see the following web site:
<http://wdr.doleta.gov/SCANS/whatwork/whatwork.pdf>

Lectures & Discussions:

Week (Start Date)	Due Date	Topic	Text Ref.
Week 1 (5-Jun)	12-Jun	Introduction to Networking	Chapter 1
Week 2 (12-Jun)	19-Jun	How Computers Find Each Other on Networks	Chapter 2
Week 3 (19-Jun)	26-Jun	How Data is Transported Over Networks	Chapter 3
Week 4 (26-Jun)	3-Jul	Structured Cabling and Network Elements	Chapter 4
Week 5 (3-Jul)	10-Jul	Network Cabling	Chapter 5
Week 6 (10-Jul)	17-Jul	Mid-Term Exam	
Week 7 (17-Jul)	24-Jul	Wireless Networking	Chapter 6
Week 8 (24-Jul)	31-Jul	Network Segmentation and Virtualization	Chapter 10
Week 9 (31-Jul)	7-Aug	Wide Area Networks	Chapter 11
Week 10 (7-Aug)	10-Aug	Course Summary (Note: Thurs. Due Date)	

Evaluation/Grading Policy:

Grades of A, B, C, D, and F will be determined by the student's achievement of a certain percentage of possible points based on the below listed categories.

<u>Assignments</u>	<u>Percentage</u>
Course projects/homework (announced throughout the semester)	70%
Mid-Term Exam	20%
Course Summary (due the week of final exams)	10%

The letter grade is based on the following Grading Scale:

89.5%-100% = A

79.5%-89.4% = B

69.5%-79.4% = C

59.5%-69.4% = D

0-59.4% = F

Tests/Exams:**Mid-Term Exam: July 10-17, 2017**

This course consists of one exam, a mid-term, and a final course summary paper (see below). The mid-term will consist of information from the start of the semester, up to the time of the exam. You will be given one week to take the exam. **If you have a conflict with the exam dates, you must** contact the instructor prior to the exam week to attempt to resolve the conflict in a mutually agreeable manner.

The exams will be offered through the BlackBoard system, and **must be taken in a proctored environment** (i.e. the proctor will have a password to let you into the exam). If you are a student who is local to one of the Northeast Texas Community College campuses, the exams may be taken at the NTCC Testing Center (located in the Business Technology-BT Building on the main campus). **If you are not local to the NTCC main campus**, please contact your instructor to make arrangements to have the exam proctored at a site near you.

The exams may consist of a variety of question types, including, but not limited to multiple-choice, fill-in-the-blank, matching, and essay. The exams will be graded, and your grade will be posted to the BlackBoard grade book after the exam period has ended.

NTCC Testing Center

903-434-8273 -or- 903-434-8217

Testing Center Hours

Monday & Thursday: 8:00 a.m. to 8:00 p.m.*

Tuesday & Wednesday: 8:00 a.m. to 6:00 p.m.

Friday: 8:00 a.m. to 12:00 noon
Closed on Saturdays & Sundays

Assignments:

HOMEWORK ASSIGNMENTS:

Each assignment deadline and its deliverables will be presented at the time the assignment is made.

Furthermore, due to the course design and its intent to cover emerging technologies, the course design itself will be a highly fluid process. The instructor reserves the right to modify the topics to be covered in order to best prepare the student with a broad overview of networking fundamentals.

The instructor will deliver the course in a manner consistent with life-long learning and rapid information acquisition requirements necessary to be successful in today's marketplace. As in today's business climate, the student must constantly stay aware of the environment. **In simple terms** -- What this means is stay "plugged" into the course. *The student should log into BlackBoard (or stay aware of other content delivery methods -- which will be discussed throughout the semester) on a very regular basis.*

Course assignments will be made throughout the semester, and adequate time will be allowed for each assignment. The course will not necessarily be a "linear" delivery method where the student will start and complete one assignment or task before they start another.

It is understood this is an introductory course in networking. It is not anticipated the student understands any of the technologies prior to entering the course, and the content will be delivered in a manner consistent with this baseline.

HOMEWORK ASSIGNMENT SUBMISSION:

Throughout the semester the student will interact with both the BlackBoard Learning Management System (LMS), as well as Cengage Learning's MindTap content delivery system. As a part of the course requirements (See required textbook section above) the student is required to obtain access to the MindTap system. Instructions will be provided through the course on how to access MindTap once enrolled and logged onto the BlackBoard system. The student will use MindTap to access the homework assignments, conduct virtual labs, etc., thus the first week will be critical to gaining access and understanding the MindTap site.

COURSE SUMMARY DOCUMENT/ASSIGNMENT:

The business world often requires succinct, yet informative summaries to be made on certain topics. This course is no different. You will be asked to document your experience throughout the semester. Some of the content might include what you liked about the course, the particular projects you appreciated, how you might use them in the future, what you did not like (yes, it is OK not to like something – your instructor feels the same way on some topics!). This will help remind you of many of the details you learned and bring a bit of conclusion to the semester. The length requirements for the Course Summary are the same as each of the reflection papers.

Student Responsibilities/Expectations:

Online Access: Students must login to the class during the first week of the semester and post to the discussion board through BlackBoard (see first assignment). Submission of assigned work will count as communication.

Class Attendance: Participation on the class website will constitute “attendance.” Withdrawal requests MUST BE initiated by the student. The last day for a student to drop a course with a grade of "W" is **Thursday, July 27, 2017**. Requests for withdrawal become official and effective the date they are received in the records office. Students who stop coming to class (that is, stop participating on the class website) but fail to drop the course will earn an “F” for the course.

Late Work: To be considered “on time,” **all work must be submitted the day it is due**. This means before midnight. The assignment dropbox will be set up to allow for late submissions up to one week following due date. Assignments can be submitted for a 10% deduction during that time period. After that time, the system will remove the assignment dropbox from the student’s view, and subsequently, no assignment may be submitted. If there are extenuating circumstances, please contact your instructor.

No late discussion postings will be accepted. Homework assignments can always be submitted early. Please recognize part of Internet technology is the age old adage of “not if the technology is going to fail, but when!”; therefore, don’t wait until the last minute to complete and submit your work!

NTCC Academic Honesty Statement:

Students are expected to complete course work in an honest manner, using their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the highest standards of academic integrity. This course will follow the NTCC Academic Honesty policy stated in the Student Handbook.

Academic Ethics

The college expects all students to engage in academic pursuits in a manner that is beyond reproach. Students are expected to maintain complete honesty and integrity in their academic pursuit. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. Refer to the student handbook for more information on this subject.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations as required to afford equal educational opportunity. It is the student’s responsibility to arrange an appointment with a College counselor to obtain a Request for Accommodations form. For more information, please refer to the NTCC Catalog or Student Handbook.

Family Educational Rights And Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.