



# ITNW 1325 – Fundamentals of Networking Technology

Course Syllabus: Summer 2022 (10-Week Course)

*“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”*

**Instructor: Dr. Kevin P Rose**

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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 |

Zoom Office URL is: <https://ntcc.zoom.us/my/krose>

***This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.***

*Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.*

**Course Description:** (3 Semester Credit Hours) Instruction in networking technologies and their implementation. Topics include the OSI reference model, network protocols, transmission media, and networking hardware and software.

**Prerequisite(s):** No formal course requirements, but students should understand how to access the Internet via a web browser.

**Required Textbook(s):** *Network+ Guide to Networks, 9<sup>th</sup> edition, West, Cengage Learning, 2022 (with MindTap)*

Reading assignments may also be made from the Internet and other external sources.

### **Student Learning Outcomes:**

- Students will be able to identify and use network transmission media.
- Students will be able to explain the OSI model.
- Students will be able to identify the characteristics of network topologies and protocols.
- Students will be able to identify the functions of a network operating system and distinguish between centralized, client/server, and peer-to-peer systems.
- 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.

### **Resources:**

**Your instructor** can be your greatest resource. I am here to assist you in learning the material and helping you earn the grade you wish to earn in the course. This is my commitment to you. Please utilize this “resource” by contacting me with any matter you feel I can assist you with, both within this class, or your university success in general. It is your responsibility to learn the material, but this can

often be best accomplished by initiating contact with me on topics you need clarification or further assistance. Please do this!

**Class Calendar:**

| Week | Start   | Due Date | Topic                             | Text Ref. |
|------|---------|----------|-----------------------------------|-----------|
| 0    |         | 06-Jun   | Course Overview – Getting Started |           |
| 1    | 06-Jun  | 20- Jun  | Introduction to Networking        | Chpt 1    |
| 2    | 13- Jun | 20- Jun  | Addressing                        | Chpt 3    |
| 3    | 20- Jun | 27- Jun  | Cabling                           | Chpt 4    |
| 4    | 27- Jun | 4-Jul    | Protocols                         | Chpt 5    |
| 5    | 4-Jul   | 11- Jul  | Exam 1 (Chpt 1, 3, 4, 5)          | Online    |
| 6    | 11- Jul | 18- Jul  | Wireless Networking               | Chpt 6    |
| 7    | 18- Jul | 25- Jul  | Network Architecture              | Chpt 7    |
| 8    | 25- Jul | 1-Aug    | Segmentation                      | Chpt 8    |
| 9    | 1-Aug   | 8-Aug    | Wide Area Networking              | Chpt 9    |
| 10   | 8-Aug   | 11-Aug   | Exam 2 (Chpt 6-9)                 | Online    |

Please Note: For a full listing of institutional dates (i.e., drop dates, graduation filing dates, etc.), the NTCC Academic Calendar can be found online at:

<https://www.ntcc.edu/sites/default/files/2021-02/2021-2022%20Academic%20Calendar.pdf>

**Evaluation/Grading Policy:**

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

| <u>Assignments</u>  | <u>Points</u> |
|---|---------------|
| Homework assignments  |               |
| Syllabus Quiz, Introduction/Bio Discussion Board Post         | 40            |
| Chapter Material (8 Chapters)                                 |               |
| Reading Self-Checks – 10 points x 8 Chpt.                     | 80            |
| Labs (Virtual/Simulations) – 1 per Chpt x 20 points x 8 Chpt. | 160           |
| Chpt Quiz – 20 points x 8 Chpt.                               | 160           |
| Chpt Discussion – 20 points x 8 Chpt.                         | 160           |
| Exams   |               |
| Exam 1  | 200           |
| Exam 2  | 200           |
| <b>Total</b>  | <b>1,000</b>  |

The letter grade is based on the following Grading Scale:

| Total Points | Ltr. Grade |
|--------------|------------|
| >= 900       | A          |
| 800-899      | B          |

|           |   |
|-----------|---|
| 700-799   | C |
| 600-699   | D |
| Below 600 | F |

### Tests/Exams:

Exams will be open book/notes and timed. You will not be required to come to campus to take the exams.

You will be required to take both exams in order to be successful in this course. You will receive an 'F' in the course if both tests are not taken.

**Exam 1** – Chapters 1, 3, 4, 5 (Week 5 – July 4-11)

**Exam 2** – Chapters 6-9 (Week 10 – August 8-11)

The exams will consist primarily of multiple-choice and true/false questions.

**If you have a conflict with the exam dates**, you **must** contact me prior to the exam week to attempt to resolve the conflict in a mutually agreeable manner.

### Assignments:

#### SYLLABUS QUIZ:

The syllabus quiz will cover the contents of the syllabus and attempt to ensure we have a mutual understanding of how the course will operate and expectations of all parties. This quiz will be offered through BlackBoard and should be taken during the first week of class.

#### CHAPTER ASSIGNMENTS:

Each chapter will consist of the following assignments:

- Reading Self-Checks – questions embedded within the chapter reading to assist in ensuring understanding as you are reading the chapter
- Hands-on Labs (Virtual/Simulation) – Hands-on labs conducted on virtual servers
- Chapter Quiz – Approximately 10-15 questions covering the chapter reading
- Discussion – Posting covering a topic covered within the chapter, and most commonly requiring some limited internet research over the topic
  - Each discussion topic will require an initial post and two response postings (see discussion posting rubric posting in the BlackBoard LMS)

All chapter assignments will be access through the NTCC BlackBoard LMS and conducted on the MindTap platform.

**Required Instructional Materials:** None, all material will be delivered through BlackBoard

**Optional Instructional Materials:** None

**Minimum Technology Requirements:** Student should understand how to use a web browser to access the BlackBoard Learning Management System.

**Required Computer Literacy Skills:** Web browser

### Communications:

The best way to communicate with me is via Bb Message. You should hear back from me within 24

hours, excluding weekends/holidays. In addition, I am very welcome to set up a specific time I can “meet” with you via phone, chat, or Zoom video conference.

**Institutional/Course Policy:**

*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 28, 2022**. 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:* Due to the fast pace and “building-block” nature of the course content, no late work will be accepted. If there are extenuating circumstances, please contact your instructor.

**Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:**

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC’s website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information.

Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

**NTCC Academic Honesty/Ethics Statement:**

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

**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 request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

**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.