CSCE 3530: Introduction to Computer Network

Fall 2026 – Sections 001

College of Computing and Computer Engineering
Department of Computer Science
As the instructor of this course, I reserve the right to adjust this schedule in any way that serves the educational needs of the students enrolled in this course.
–Bhaskar Trivedi

Instructor Information

- **Instructor:**Bhaskar Trivedi
- **Class Location and Time :**
  - **Section 001 NTDP F119 TuTh 9:05 AM - 10:25 AM**
- **Email : bhaskar.trivedi@unt.edu**
- **Office Hours** Monday Tuesday 2PM - 4 PM
- **Location : NTDP E235D**

1. Course Description

Introduction to data communications; asynchronous, synchronous, Networks, and current technology

2. Topic to Cover

- Computer Networks and the Internet
- Application Layer
- Transport Layer
- The Network Layer : Data Plane
- The Network Layer : Control Plane

3. Course Learning Outcomes

By the end of this course, students will be able to:

1. Understand a conceptual view of the role of computers in communications

2. Understand communication protocols on the Internet

3. Be able to do fundamental network programming

4. Understand different network architecture

5. Recognize the role of application protocols

6. Understand different routing and forwarding protocols

4. Expected Student Outcomes

Computer Science Students

- Analyze complex computing problems and identify solutions.
- Design, implement, and evaluate computing-based solutions.
- Apply computer science theory and software development fundamentals.

Computer Engineering Students

- Identify and solve complex engineering problems.
- Acquire and apply new knowledge using appropriate learning strategies.

Information Technology Students

- Analyze computing problems and user needs.
- Design and evaluate computing-based systems.

5. Course Materials

- Computer Networking: A Top-Down Approach 7th edition, Kurose and Ross, Pearson 2016. ISBN-13: 9780133594140, ISBN-10: 9780133594140

6. Course Communication

This course will use the Canvas learning management system (LMS) to distribute course materials, communicate and collaborate online, post grades, and submit assignments. You are responsible for regularly checking the Canvas course site for class work and announcements. You may find the Online Communication Tips (https://clear.unt.edu/Online Communication Tips) helpful. If you have questions about the course or material in general, you can attend your instructor's office hours or use your UNT e-mail address to e-mail your instructor directly at the e-mail address listed above with CSCE 3530-001 in the subject line.

7. Prerequisites

- CSCE 3600 : Principles of Systems Programming (C or better)

8. Weekly Schedule

Date	Topic	Assignments
8/18	Computer Networks and the Internet	Lab, Quiz, Participation
8/25	Computer Networks and the Internet	Lab, Quiz, Participation
9/01	Computer Networks and the Internet	Lab, Quiz, Participation
9/08	Application Layer	Lab, Quiz, Participation
9/15	Application Layer	Quiz, Participation
9/22	Application Layer	Lab, Quiz, Participation
9/29	Transport Layer	Lab, Quiz, Participation
10/6	Transport Layer/Review (second class of the week)	
10/13	Midterm 1	Lab, Quiz, Participation
10/20	Transport Layer	Lab, Quiz, Participation
10/27	Network Layer: Data Plane	Lab, Quiz, Participation
11/03	Network Layer: Data Plane	Lab, Quiz, Participation
11/10	Network Layer: Control Plane	Lab, Quiz, Participation
11/17	Network Layer: Control Plane	Lab, Quiz, Participation
12/01	Review	Comprehensive Exam
12/03	Comprehensive/Final Exam	Comprehensive Exam

9. Grading Breakdown

- In-Class Activity 15%
- Programming Assignments: 25%
- Homework Assignment: 15%
- Midterm Exam: 20%
- Comprehensive/Final Exam: 25%

10. Grading Scale

- A: $90 - 100\%$

- B: $80 < 90\%$
- C: $70 < 79\%$
- D: $60 < 69\%$
- F: below 60%

11. Course Policies

AI Policy

AI-generated submissions are not allowed without explicit instructor permission. Unauthorized use of AI tools will be treated as plagiarism.

Make-Up Exams

No make-up exams will be scheduled for any reason in most situations, and there will be no make-up work for any assessment in this course. In the event of an emergency absence (illness, etc.) proper documents should be provided for consideration.

Late Work Policy

There will be a 4-point penalty for each hour of late submission. For example:

- $0.0001 - 1$ hour late: -4 points
- $1.0001 - 2$ hours late: -8 points
- so on

Academic Integrity

All submitted work must be original. Any form of cheating or plagiarism will result in disciplinary action, which can include a score of 0 to -100 for the assignment, a final grade of F of the course, and a referral to the Office of Academic Integrity.

Attendance

Students are responsible for all material covered during absences. Lab attendance is mandatory unless excused in advance. Absence from class or recitation is permitted only in cases of emergency, including medical emergencies or participation in officially recognized university events. In all such cases, valid supporting documentation is required. Situations such as a flat tire, an engine failure in the car, or personal planning—among others—do not qualify as emergencies and will not be considered valid reasons for absence.

12. Accessibility

Students who require accommodations must register with the Office of Disability Access (ODA) and provide documentation to the instructor early in the semester.

Honor Code

"I commit myself to honor, integrity, and responsibility as a student representing the University of North Texas community."