

# Computer Networks

## CSCE 3530-001

**Course Instructor:** Dr. Pradhumna Shrestha

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- Include CSCE 3530.001 in subject line
- Always use your official UNT email address

**Class Location/Time:** NTDP B142, TuTh 12:30 PM-3:20 PM

### **Office Hours:**

In-Person: Mo 11:30 AM-12:30 PM @ F265

Zoom: Any time via appointment

### **Instructional Assistant:**

Alkuwaifi, Ibrahim

Email: [ibrahimalkuwaifi@my.unt.edu](mailto:ibrahimalkuwaifi@my.unt.edu)

Office Hours: Th 12:00 PM-12:30 PM @F232

**Course Description:** Introduction to data communications; asynchronous, synchronous, networks and current technology.

### **Topics to be covered**

- Computer Networks and the Internet
- Application Layer
- Transport Layer
- The Network Layer
- The Link Layer: Links, Access Networks, and LANs

### **Course Outcomes**

- Understand a conceptual view of the role of computers in communications.
- Understand communication protocols in the Internet.
- Be able to do fundamental network programming.
- Understand different network architecture.
- Recognize the role of application protocols.
- Understand different routing and forwarding protocols.

## **TEXTBOOK**

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

**Prerequisite:** CSCE 3600.

## **SCHEDULE AND GRADING**

Attendance/Class Participation: 5%

Homework: 20%

Mid-Term: 25%

Final: 30%

Programming Assignments: 20%

## **Notes:**

### **ATTENDANCE POLICY**

Class attendance is regarded as an obligation as well as a privilege. All students are therefore expected to attend each class meeting. *A student who misses class is still responsible to find out what was discussed and to learn the material that was covered and obtain the homework that was assigned on the missed day.* The instructor is not responsible for re-teaching material missed by a student who did not attend class. Therefore, each student is accountable for and will be evaluated on *all* material covered in this course, regardless of attendance.

Attendance/Participation grades will be based on attendance, contribution to in-class discussions, and assessment of any in-class work. Disruptive behavior and unexcused absences deemed excessive will result in a lower attendance/participation grade.

I will give a quiz question in every class on Canvas. You must answer the question correctly to get the point for attendance, just attending the class is not enough to get the points.

## **HOMEWORK**

Homework will be assigned based on material from the lectures and textbook. These assignments are meant for you to become familiar with the course material and this practice will aid you in mastering the concepts on the exams. 50% points will be deducted if you turn in your assignments a day late. Assignment turned in more than a day late without instructor's approval will receive zero points.

## **PROGRAMMING ASSIGNMENTS**

There will be some programming assignments assigned throughout the semester. The programming assignments are an integral part of the course and are intended to provide experience in the application of the design techniques discussed in lecture. Programming assignments must be done on the CSE servers (cse01 – cse06). Any evidence of group participation will be interpreted as academic dishonesty. 50% points will be deducted if you turn in your assignments

a day late. Assignment turned in more than a day late without instructor's approval will receive zero points.

### **MID-TERM EXAM**

There will be a midterm examination given in this course. Tentative date for mid-term is 06/07. The confirmed date and pattern of this exam will be posted on Canvas and announced in class at least one week prior to the date of the exams.

### **FINAL EXAM**

There will be a comprehensive final exam on 07/07. All students are expected to take the final exam during the scheduled time period.

### **GRADING POLICY**

Grades will be posted on Canvas throughout the semester to provide an ongoing assessment of student progress, though final assessment will be measured using the weighted average above.

Also, once a grade is assigned on Canvas, students have two weeks to dispute the grade. The proper channel for grade disputes is to first go to the original grader (such as the TA or IA) in an attempt to resolve the issue. If, however, a resolution cannot be reached between the student and the grader, the student shall then go to the instructor who will have the final say on the grade.

### **STUDENT RESPONSIBILITY**

Students are responsible for submitting the *correct* assignments (i.e., uploading the proper files) for each applicable assignment submission on Canvas. When an incorrect assignment is submitted to Canvas, students wanting to resubmit with the correct file(s) *after the due date has passed* will have their assignment assessed a 30% reduction penalty. Proof must be given (i.e., timestamp for the file on the CSE machines) that the assignment was completed on time. If you have any questions or concerns about your submission, please work with your instructor or TA/IA for this course to ensure the correct file(s) is/are submitted.

### **ADA STATEMENT**

The University of North Texas makes reasonable academic accommodation for students with disabilities. Students seeking accommodation must first register with the Office of Disability Accommodation (ODA) to verify their eligibility. If a disability is verified, the ODA will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, ODA notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet with each faculty member prior to implementation in each class. For additional information, see the Office of Disability Accommodation website at <http://disability.unt.edu>. You may also contact them by phone at (940) 565-4323.

## **ACCEPTABLE STUDENT BEHAVIOR**

Student behavior that interferes with an instructor's ability to conduct a class or other students' opportunity to learn is unacceptable and disruptive and will not be tolerated in any instructional forum at UNT. Students engaging in unacceptable behavior will be directed to leave the classroom and the instructor may refer the student to the Dean of Students to consider whether the student's conduct violated the Code of Student Conduct. The university's expectations for student conduct apply to all instructional forums, including university and electronic classroom, labs, discussion groups, field trips, etc. The Code of Student Conduct can be found at <http://deanofstudents.unt.edu>.

## **ACADEMIC DISHONESTY**

This course follows the Department of Computer Science and Engineering *Cheating Policy*. Specifically, students caught cheating or plagiarizing will receive a "0" for that particular assignment or exam for the first offense. Additionally, the incident may be reported to the Dean of Students, who may impose a further penalty. A second instance of cheating in this class will result in a grade of F in the class, and referral to the Department Chairperson and Dean of Engineering, whereby a dismissal hearing may be initiated by the Dean of Engineering.

Individual assignments, including laboratory exercises and programming assignments, in this course must be the sole work of the individual student. You should not work with other students on shared program solutions or use solutions found on the Internet. Specifically, you should never copy someone else's solution or code, and never let a classmate examine your code. If you are having trouble with an assignment, please consult with your instructor or TA/IA assigned to this course. Failure to adhere to these strict standards may be cause for disciplinary action even leading to expulsion from the University.

Students are responsible for being familiar with the university standard for academic integrity. In the case that the above description or any in-class discussion of appropriate and inappropriate collaboration do not answer all of your questions, please meet with your instructor and look at the university Student Rights and Responsibilities web page.

## **SYLLABUS REVISIONS**

This syllabus may be modified as the course progresses should the instructor deem it necessary. Notice of changes to the syllabus shall be made through Canvas and/or class announcement.

## TENTATIVE SCHEDULE

| Day   | Lecture             |
|-------|---------------------|
| 05/17 | Syllabus, Chapter 1 |
| 05/19 | Chapter 1           |
| 05/24 | Chapter 2           |
| 05/26 | Chapter 3           |
| 05/31 | Chapter 3           |
| 06/02 | Chapter 4, Review   |
| 06/07 | Mid Term            |
| 06/09 | Chapter 4           |
| 06/14 | Chapter 4           |
| 06/16 | Chapter 5           |
| 06/21 | Chapter 5           |
| 06/23 | Chapter 5           |
| 06/28 | Chapter 6           |
| 06/30 | Chapter 6           |
| 07/05 | Chapter 6, Review   |
| 07/07 | Final Exam          |