

**CS 435: Computer Networks**  
**Spring 2022**  
**MW 9:00-10:15**

## Instructor Information

Name: S. Seth Long, Ph.D  
Office: TJH 204  
Email: [sslong@lcsc.edu](mailto:sslong@lcsc.edu)  
Office Hours: Monday 2:00-3:00, Thursday 11:00-12:00  
Course Website: <http://isoptera.lcsc.edu/~seth/cs435>

## Course Goals

At the end of the course, students should:

- Understand computer networks and the Internet
- Understand the role of each network layer
- Be able to write client/server programs
- Be familiar with principles for writing UNIX software
- Understand ethical issues in networking

## Textbook

*Computer Networks*, Tanenbaum and Wetherall, 5th edition

## Grading

Your grade will be calculated based on the following items:

Item	Percentage of grade
Midterm Exam	20%
Final Exam	20%
2 Projects	50% total (20% for the client, 30% for the server)
Homework	10% total

Homework assignments will generally be posted before the week they are intended to be completed within, and due the Monday after.

Grades will be assigned according to a standard curve, that is:

- A: 90% +
- B: 80%- 90%
- C: 70%- 80%
- D: 60%- 70%
- F: less than 60%

Use of + or - grades (such as B+ or A-) and curves will be at the instructor's discretion.

## Deadlines and late work

Late work will not be accepted, except by instructor discretion. However, partial credit will be given for partially-completed work. It is better to turn in an unfinished assignment for partial credit than to not turn in something on time and receive a 0.

## Attendance

Attendance will not be taken in this class except as required for financial aid purposes. However, all material presented during lecture is "fair game" for the midterm and final, and some of this material may not be in the book as well. Therefore I recommend that you always attend class.

## Academic Dishonesty

Cheating on any assignment will result in failing the class. Some things which constitute cheating in this class are:

- Copying another student's homework
- Turning in homework created by another student
- Reading another student's answers on a test
- Sharing all or part of your completed homework with another student before the assignment is due
- Turning in code found on the Internet

Appropriate collaboration on homework involves sharing ideas with other students only, not source code! Although it is often tempting to help another student by showing them how your completed program works, this is not helpful to their learning. However, this does not mean you cannot collaborate with other students on homework. Sharing of ideas, principles, and algorithms is permitted and encouraged.

## Tentative Course Schedule

Spring 2022 CS435 Schedule			
Week	Course Content	Relevant Reading	Events
Jan 17	No class Monday, Introduction to the Sockets API	Chapter 1	
Jan 24	Multithreaded Servers	To be assigned	
Jan 31	LURK Protocol and Binary Network Data	LURK protocol	
Feb 7	Simple Network Software UI	Chapter 2	
Feb 14	No class Monday, Physical Layer	Chapter 3	
Feb 21	Data Link Layer		
Feb 28	Medium Access Control Sublayer	Chapter 4	
Mar 7	Midterm and answers		Client Due
Mar 14	Network Layer	Chapter 5	
Mar 21	Transport Layer	Chapter 6	
Mar 28	Spring Break		
Apr 4	Application Layer	Chapter 7	
Apr 11	Demo: TBD		Server Milestone
Apr 18	Demo: TBD		
Apr 25	In-Class Server Testing		Server Due
May 2	Topics of Interest		
May 9	Final Exam Wednesday, May 11 at 9:00 AM		