

CS 435: Computer Networks
Spring 2018
TTh 9:00-10:30 plus online lab assignments

Instructor Information

Name: S. Seth Long, Ph.D
Office: MLH 216
Email: sslong@lcsc.edu
Office Hours: Monday 1:00-2:00, Thursday 10:30-11:30
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	20%
Final	20%
2 Projects	50% total (25% each)
Lab Assignments	10% total

Lab 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. 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 Calendar

Spring 2018 CS435			
Week	Course Content	Relevant Reading	Events
Jan 15	Introduction to the Sockets API	Chapter 1	
Jan 22	Multithreaded Servers	To be assigned	
Jan 29	LURK Protocol and Binary Network Data	LURK protocol	
Feb 5	Physical Layer	Chapter 2	
Feb 12	Data Link Layer	Chapter 3	
Feb 19	Medium Access Control Sublayer	Chapter 4	
Feb 26	Simple Network Software UI		Client Due, no lab
Mar 5	Midterm and answers		
Mar 12	Network Layer	Chapter 5	
Mar 19	Transport Layer	Chapter 6	
Mar 26	Spring Break		
Apr 2	Application Layer	Chapter 7	
Apr 9	Demo: TBD		Server Milestone
Apr 16	Demo: TBD		
Apr 23	In-Class Server Testing		Server Due
Apr 30	Topics of Interest		no lab
May 7	Final Exam Thursday, May 10 at 9:00 AM		