

UNIVERSITY OF SOUTHERN CALIFORNIA
MING HSIEH DEPARTMENT OF ELECTRICAL ENGINEERING

EE 450 Introduction to Computer Networks MW 4:00 to 5:20 PM

Instructor:	Prof. Cauligi Raghavendra	Phone: (213) 740-9133
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Office Hours:	Mon, Wed 2:00 PM to 3:30 PM	

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Office Hours:	Tue, Fri 1:30 to 3:00 PM	

Text: Computer Networking: A Top Down Approach
by: James F. Kurose and Keith W. Ross, 7th Ed.

Week	Subject	Text Chapter & Homeworks
1/8, 1/10	Introduction to Course; Network elements; Internet; protocols, and physical media	Chapter 1, HW1
1/15 1/17	Martin Luther King Day, University Holiday Packet and message switching; performance metrics; protocol layers; Link Layer	Chapter 1, Qz1, HW2
1/22, 1/24	Protocol Layers, Error Detection and Correction;	Chapter 1, 6, Qz2, HW3
1/29, 1/31	Link Layer, Multiple Access protocols, CSMA/CD	Chapter 6, Qz3, Project #1
2/5, 2/7	Data Centers, Applications, Web and HTTP e-mail, SMTP	Chapter 2, Qz4, HW4
2/12, 2/14	DNS, P2P applications, Media streaming, CDN	Chapter 2, Qz5, HW5
2/19 2/21	Presidents' Day, University Holiday Transport Layer Protocols	Chapter 3, Qz6, HW6
2/26, 2/28	UDP and TCP, Flow and Congestion Control	Chapter 3, (HW7), Project #2
3/5	Congestion Control; Review for Midterm	Chapter 3
3/7	MIDTERM EXAM	
3/12-3/18	SPRING BREAK	
3/19, 3/21	Network Layer, Internet Protocol	Chapter 4, Qz7, HW8
3/26, 3/28	Forwarding and Routing Algorithms	Chapter 4, 5, Qz8, HW9
4/2, 4/4	Routing, Broadcasting, and Multicasting	Chapter 5, HW10

4/9, 4/11	Wireless and mobile networks	Chapter 7
4/16, 4/18	Mobility, Mobile IP, Network security	Chapter 7, 8
4/23, 4/25	Advanced Topics; Course Review	

COURSE GRADE:

Homeworks 5%

Quizzes in Class 10%

Midterm Exam 30%

Programming Projects 15%

Final Exam 40%

Homeworks: Several homeworks will be assigned (8 to 10)

Quizzes: several weekly short quizzes in class (6 to 8)

Programming projects (2 or 3) will be assigned throughout the semester

Lecture: Mon Wed 4:00-5:20 PM, SOS B46

Discussion: Fri 12 to 12:50 PM, ZHS 352

FINAL EXAM DATE: Wednesday May 2, 2018, 4:30-6:30 PM, SOS B46

Statement for Students with Disabilities

Any student requesting academic accommodations based on a disability is required to register with Disability Services and Programs (DSP) each semester. A letter of verification for approved accommodations can be obtained from DSP. Please be sure the letter is delivered to me (or to TA) as early in the semester as possible. DSP is located in STU 301 and is open 8:30 a.m.–5:00 p.m., Monday through Friday. The phone number for DSP is (213) 740-0776.

Statement on Academic Integrity

USC seeks to maintain an optimal learning environment. General principles of academic honesty include the concept of respect for the intellectual property of others, the expectation that individual work will be submitted unless otherwise allowed by an instructor, and the obligations both to protect one's own academic work from misuse by others as well as to avoid using another's work as one's own. All students are expected to understand and abide by these principles. *Scampus*, the Student Guidebook, contains the Student Conduct Code in Section 11.00, while the recommended sanctions are located in Appendix A: <http://www.usc.edu/dept/publications/SCAMPUS/gov/>. Students will be referred to the Office of Student Judicial Affairs and Community Standards for further review, should there be any suspicion of academic dishonesty. The Review process can be found at: <http://www.usc.edu/student-affairs/SJACS/>.