

Principles of Computer Networking (Fall, 2003)

CRN	10518
Course Number	ECE-C631
Section Number	501
Credits	3.0
Time	Thursdays 6pm - 8:50pm
Room	MATHSN 311
Instructor	Steven Weber
Restrictions	graduate standing
Department	Electrical and Computer Engineering

Description

Principles of circuit switching, packet switching and virtual circuits; protocol layering; application layer protocols for e-mail and web applications; naming and addressing; flow control and congestion avoidance with TCP; Internet Protocol (IP); routing algorithms; router architectures; multicast protocols; local area network technologies and protocols; issues in multimedia transmissions; scheduling and policing; Quality-of-Service and emerging Internet service architectures; principles of cryptography.

Textbook

Primary text (required)

Title	Computer Networking: A Top-Down Approach Featuring the Internet
Authors	James Kurose and Keith Ross
Publisher	Pearson Addison Wesley
ISBN	0201976994
Edition	2 nd

Supplemental text (optional)

Title	Probability and Random Processes for Electrical Engineering
Authors	Albert Leon-Garcia
Publisher	Prentice-Hall
ISBN	020150037X
Edition	2 nd

Grading

Homework (one problem set per week)	30%
Midterm Exam (comprehensive)	30%
Final Exam (comprehensive)	40%

Homework and Makeup Exams

Makeup exams are only available if you are unable to attend due to a severe health problem or a death in your family. Homeworks are due at the **beginning** of class, one week following the class in which they were assigned. Late homeworks will not be accepted.

Final Exam Location and Time

The university has promised to announce the final examination schedule during the third week of class. Do not make winter vacation travel plans which might interfere with the course until the examination time has been announced.

Students with Disabilities

In accordance with Drexel University policy, any student with a documented disability who needs accommodations is encouraged to contact the Office of Disability Services (215-895-1401) or speak directly to the professor for further information about this office. Students must register with the Office of Disability Services and receive an Accommodation Verification Form prior to receiving accommodations. Contact with the Office of Disability Services is strictly confidential. Please make contact as early in the term as possible in order to receive timely accommodations.

Mandatory Registration

All students sitting in the classroom during the class **must** be registered for the course and on the class list supplied to the instructor for the second class. Any student not on the list at that time will be asked to leave until proper registration is obtained.

Academic Dishonesty

The Drexel University policy on academic dishonesty may be found at <http://www.drexel.edu/studentlife/studenthandbook2002/judicial/acadhon.html> and will be strictly enforced. **Plagiarism, fabrication, and cheating will, at the discretion of the instructor, constitute grounds for failure of the course.**

Course Calendar

Important: Please read the chapter for the lecture **before** the class in which it is covered. In particular, please read chapter 1 **before** the first class!

Class #	Date	Subject
1	Thursday, September 25	Chapter 1: <i>Computer Networks and the Internet</i>
2	Thursday, October 2	Chapter 2: <i>Application Layer</i>
3	Thursday, October 9	Chapter 3: <i>Transport Layer</i>
4	Thursday, October 16	Chapter 4: <i>Network Layer and Routing</i>
5	Thursday, October 23	Midterm Exam
6	Thursday, October 30	Chapter 5: <i>Link Layer and Local Area Networks</i>
7	Thursday, November 6	Chapter 6: <i>Multimedia Networking</i>
8	Thursday, November 13	Chapter 7: <i>Security in Computer Networks</i>
9	Thursday, November 20	Chapter 8: <i>Network Management</i>
10	Thursday, November 27	Thanksgiving Holiday (no class)
11	Thursday, December 4	TBA
12	Thursday, December 11	TBA