Advanced Topics in Computer Networking (Spring, 2005)

CRN	30268
Course Number	ECE-C633
Section Number	501
Credits	3.0
Time	Thursdays 6pm - 8:50pm
Room	Randel 234
Instructor	Steven Weber
Restrictions	ECE-C632 w/ minimum grade of C
Department	Electrical and Computer Engineering

Description
Perspectives in the areas of switch/router architectures, scheduling for best-effort and guaranteed services, QoS mechanisms and architectures, web protocols and applications, network interface design, optical networking, and network economics. The course also includes a research project in computer networking involving literature survey, critical analysis, and finally, an original and novel research contribution.

Textbook
Primary text (required)

Title	Communication Networking : An Analytical Approach
Authors	Anurag Kumar, D. Janjunath, and Joy Kuri
Publisher	Morgan Kaufmann
ISBN	0124287514
Edition	1^{st}

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.

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
Please read the assigned materials for the lecture *before* the class in which it is covered.

Class	Date	Material	Homework
1	3/31	★ Chapter 6: *Circuit-multiplexed networks* Sections §6.1 – §6.2	★ HW1 assigned
2	4/7	★ Chapter 6: *Circuit-multiplexed networks* Sections §6.3 – §6.4	★ HW1 due ★ HW2 assigned
3	4/14	★ Chapter 6: *Circuit-multiplexed networks* Sections §6.5 – §6.6	★ HW2 due ★ HW3 assigned
4	4/21	★ Chapter 6: *Circuit-multiplexed networks* Section §6.7 – §6.9	★ HW3 due
5	4/28	Midterm Exam	★ HW4 assigned
6	5/5	★ Chapter 8: *Multiple access: Wireless networks* Sections §8.1 – §8.2	★ HW4 due ★ HW5 assigned
7	5/12	★ Chapter 8: *Multiple access: Wireless networks* Sections §8.3 – §8.4	★ HW5 due ★ HW6 assigned
8	5/19	★ Chapter 8: *Multiple access: Wireless networks* Sections §8.5 – §8.6	★ HW6 due ★ HW7 assigned
9	5/26	★ Chapter 8: *Multiple access: Wireless networks* Sections §8.7 – §8.8	★ HW7 due ★ HW8 assigned
10	6/2	★ Chapter 8: *Multiple access: Wireless networks* Sections §8.9	★ HW8 due
11	6/9	Final Exam	