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 1st

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

www.ece.drexel.edu/courses/ECE-C633-501/  
1 March 30, 2005
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.

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