CSCE 3530, Introduction to Computer Networks

Instructor: Ram Dantu
Office: Discover Park  F230
Office Hours: MW (1-2:30pm)
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Fall '2013
Time: MW (4:00 -5:20 pm)
Meeting Place: NTDP B140

Current Catalog Description:
Introduction to data communications; asynchronous, synchronous, networks and current technology.

Textbook:

References:

Course Outcomes:
1. Understand a conceptual view of the role of computers in communications.
2. Understand communication protocols in the Internet.
3. Be able to do fundamental network programming.
4. Understand different network architecture.
5. Recognize the role of application protocols.
6. Understand different routing and forwarding protocols.

Prerequisites by Topic:
CSCE 3600
Major Topics Covered in the Course:

<table>
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<tr>
<th>Topic</th>
<th>Comments (L1 stands for lecture1)</th>
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<tr>
<td>Nuts and Bolts of the Internet</td>
<td>L1, L2</td>
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<tr>
<td>Access, Edge, and Core Networks</td>
<td>L3, L4</td>
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<tr>
<td>Edge and Core Networks</td>
<td>L4, L5</td>
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<tr>
<td>LAN Design</td>
<td>L6, L7, L8</td>
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<td>End-user protocols, Services and QoS</td>
<td>L9, L10, L11</td>
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<td>Socket Programming</td>
<td>L12</td>
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<td>TCP/IP Protocol Services</td>
<td>L13, L14</td>
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<td>Midterm</td>
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<td>TCP/IP Reliable Transfer</td>
<td>L15, L16</td>
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<td>TCP and QoS</td>
<td>L17, L18, L19</td>
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<td>TCP Connection Management</td>
<td>L20, L21</td>
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<td>TCP over Wireless</td>
<td>L22, L23</td>
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<td>High Availability</td>
<td>L24, L25, L26</td>
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<td>Routing_Forwarding</td>
<td>L27, L28</td>
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<td>Final Exam</td>
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GRADING SCHEME

- 5% -- Homework 1 and Quiz 1
- 5% -- Homework 2 and Quiz 2
- 5% -- Homework 3 and Quiz 3
- 5% -- Homework 4 and Quiz 4
- 10% -- Project 1
- 10% -- Test1
- 10% -- Project 2
- 15% -- Project 3
- 10% -- Seminar
- 15% -- Test2
- 10% -- Class Participation

COURSE POLICIES

- Attendance for this course is mandatory. I may be covering topics not in the book. It is at the best interest of students to attend all the classes. It is student’s responsibility to contact other students for notes/announcements for the missed classes
- **ABSOLUTELY, NO LATE homework/projects/term paper graded.**
- All homework/projects/term paper and experimental reports be turned in at the START of class on the date due. DO NOT email your homework/project report to me. Where ever applicable, you should submit through “project” option on the server.
• All students will be trusted to pursue their academic careers with honesty and integrity. Academic dishonesty includes, but not limited to, cheating on a test or other course work, plagiarism, unauthorized collaboration with other persons. Students found guilty of dishonesty will be subject to penalties that may include suspension from the university.
• Instructor reserves the right to modify course policies, the course contents and the order in which the topics are covered.

Disabilities Accommodation:
The University of North Texas complies with Section 504 of the 1973 Rehabilitation Act and with the Americans with Disabilities Act of 1990. The University of North Texas provides academic adjustments and auxiliary aids to individuals with disabilities, as defined under the law. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring accommodation, please see the instructor and/or contact the Office of Disability Accommodation at 940-565-4323 during the first week of class.