CS6504: What is it about?

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Goals

- Introduce research issues in networking
- Foster the ability to perform independent research
Means

- Traditional textbook model
- Class discussion
- Research Surveys
  - Each week you get 2 papers to survey.
  - A one to two page summary is due the next week.
Topics

- Application Layer: Network applications, protocols, application level framing
- Transport Layer: Service Models, Congestion Control
- Network Layer: Service Models, Routing algorithms, IPv6, Multicast
- Link Layer
- Multimedia Services: Application requirements, traffic models, Quality of Service issues, transport protocols for adaptive and hard real time traffic
- Computer Security
Prerequisites

- CS5516 (Computer Networks)
- Strong programming ability in C
- User-level understanding of the UNIX operating system
- Ability to undertake substantial independent design projects
Resources

• Required Text:

• Recommended Books:
  • Wright and Stevens, *TCP/IP Illustrated*, Vol 1. Addison Wesley
## Grading

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<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
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<tr>
<td>Projects (2)</td>
<td>40%</td>
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<td>Final Project</td>
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