CS 5516: What is it about?

Srinidhi Varadarajan
Instructor Information

● Instructor:
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● GTAs
  – Muthumukar Thirunavukkarasu (mthiruna@vt.edu)
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  – Office Hours: McB 133
    • Sabah: 10-12 M,
    • Muthumumar: 11:30 – 1:30 W,F

● Electronic Resources:
  – forum.cs.vt.edu
Goals

- Introduce the basics of networking both from a theoretical as well a practical standpoint

- Foster the ability to understand research issues
Means

- Traditional textbook model
- Class discussion
- Projects
Topics

- Transport Layer: Service Models, Protocols, Congestion Control
- Network Layer: Service Models, Routing algorithms, IPv6, Multicast
- Link Layer: Issues, performance, implementations
- Multimedia Services: Application requirements, traffic models, Quality of Service issues, transport protocols for adaptive and hard real time traffic
Prerequisites

- Knowledge of computer architectures. Topics include virtual memory, timers, scheduling, multiprogramming
- 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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