CS 5516: What is it about?

Srinidhi Varadarajan

Instructor Information

- Instructor:
  - Dr. Srinidhi Varadarajan (srinidhi@cs.vt.edu)
  - Location: 2160K Torgersen Hall
  - Office Hours:
    - 10 – 12 Tu, Th
- GTAs
  - Muthumukar Thirunavukkarasu (mithiruna@vt.edu)
  - Mohammad Sabah (msabah@vt.edu)
  - 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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<td>Homework</td>
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<td>Midterm</td>
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