CS 3204: What is it about?

Srinidhi Varadarajan

Instructor Information

- **Instructor:**
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    - 10 – 12 Tu, Th
- **GTA**
  - Yuxin Chen (yuchen@csgrad.cs.vt.edu)
  - Office Hours: McB 133 (TBA)
- **Electronic Resources:**
  - Website: http://courses.cs.vt.edu/~cs3204
  - Electronic Discussion: forum.cs.vt.edu

Goals

- Introduce the basics of operating systems both from a theoretical as well as an implementation standpoint.

- Foster the ability to understand design issues and trade-offs in operating systems.

Means

- Traditional textbook model
- Class discussion
- Projects

Topics

- Basic OS concepts: timesharing, multiprogramming etc.
- OS Usage: Resources, Processes, Threads
- OS Organization
- Computer Organization
- Device Management
- Process Management and Scheduling
- Synchronization
- Deadlock Detection and Recovery
- Virtual Memory and Memory Management

Prerequisites

- CS Major/Minor: CS 2604, with grade C or better.
- CpE Major: CS 2604, with grade C- or better. Should also have passed Introduction to Computer Engineering
- Strong programming ability.
- Ability to undertake substantial independent design projects a.k.a this is not an "light load" course.
Resources

- Required Text:

- References:

Grading

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