CS 3204: What is it about?

Srinidhi Varadarajan
Instructor Information

● **Instructor:**
  – Dr. Srinidhi Varadarajan ([srinidhi@cs.vt.edu](mailto:srinidhi@cs.vt.edu))
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● **GTA**
  – Yuxin Chen ([yuchen@csgrad.cs.vt.edu](mailto:yuchen@csgrad.cs.vt.edu))
  – **Office Hours:** McB 133 (TBA)

● **Electronic Resources:**
  – **Website:** [http://courses.cs.vt.edu/~cs3204](http://courses.cs.vt.edu/~cs3204)
  – **Electronic Discussion:** [forum.cs.vt.edu](http://forum.cs.vt.edu)
Goals

- Introduce the basics of operating systems both from a theoretical as well 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

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>50</td>
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<tr>
<td>Homework</td>
<td>100</td>
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<tr>
<td>Midterm</td>
<td>150</td>
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<td>5 Projects</td>
<td>500</td>
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<td>Final Exam</td>
<td>150</td>
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