ComS 552 Principle of Operating Systems - Spring 2010

Course Credit: 3.0

Lecture Time: 2:10-3:30 pm Tuesday & Thursday (tentative)
Lecture Location: TBA
Pre-requisite: Com S 352; Unix programming experience; or permission of the instructor

Course objectives and content

- To understand important principles in modern operating systems and advances made in this research area
  - Process/thread synchronization
  - Management of critical resources: disks, memory, CPU
  - Distributed mutual exclusions
  - Remote procedure calls
  - Failure recovery and fault tolerance
  - Security
  - Specifics for Spring 2010
    - Tiny OS Design Principle
    - nesC programming
    - Research topics in wireless ad-hoc/sensor networks

- To gain research experience
- To enhance programming skills

Course materials:

- Lecture notes
- Technical articles from journals and conference proceedings

Score Allocation:

- Individual Assignments (3 or 4): 30%
- Midterm: 15%
- Final: 15%
- Group Project (1 term project; 1, 2 or 3 people per group): 35%
- Participation: 5%

Instructor & Teaching assistant

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