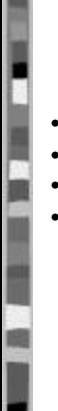





CS4513 Distributed Computer Systems

Mark Claypool





Topics

- Background
- Admin Stuff
- Motivation
- Distributed Computer Systems!





Professor Background (Who am I?)

- Dr. Mark Claypool (professor, "Mark")
 - Systems
 - CS3013 Operating Systems
 - CS4513 Networks
- Research interests
 - Networks (routing, congestion)
 - Multimedia performance



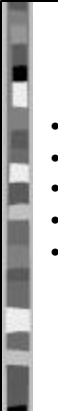

Syllabus Stuff

- <http://www.cs.wpi.edu/~claypool/courses/4513-B02/>
- Teaching Assistant:
 - Choong-Soo Lee
- Office hours:
 - Mon 9:15-10, Wed 1-2, Fri 4-5
 - See Web page
- Email
 - cs4513_ta@cs, cs4513@cs




Text Book

- Two books:
 - Operating Systems text (Silberchatz or Tanenbaum)
 - "Distributed Systems", by Tanenbaum and van Steen
- "Recommended" texts



Topics

- Introduction
- File Systems
- Communication
- Processes
- Naming
- Synchronization
- Consistency and Replication
- Fault Tolerance
- Security



Course Structure

- Prerequisites
 - Operating Systems (CS3013, recommended)
 - Unix development experience (recommended)
 - No networking experience required
- Grading
 - Exams (55%)
 - Projects (45%)



Exams

- 3 exams
- 55% of grade
 - Middle exam slightly smaller
- Non-cumulative
- Closed-note
- Closed-paper
- Closed-friend
- One-page "crib-sheet"



Projects

- 3 projects
- Implementation in Linux!
 - For project 1, at least
- Individual
- Apply concepts taught in class
 - 0- Fossil introduction
 - 1- File Systems
 - 2- ...



Slides

- On the Web
- PPT and PDF
- Caution! Don't rely upon the slides alone!
Use them as supplementary material
 - (come to class)
- See *timeline* and *reading list*, too



Why This Class?

- WPI CS requirements
 - (Gotta take 4000-level *something*)
- Systems are cool!
 - algorithms, networks, hardware...
 - (Computer "gear-head")
- Programming
 - The more you do, the better a scientist/software-engineer you are
 - Today, all systems are distributed
- Fun!

