



## Operating Systems

CS 3013

## Topics

- ✦ Background
- ✦ Admin Stuff
- ✦ Motivation
- ✦ Objectives
- ✦ Operating Systems!



## Professor Background

- ✦ Dr. Mark Claypool (professor, “Mark”)
- ✦ Systems guy
  - operating systems
  - distributed systems
  - collaborative systems
  - (multimedia performance)
- ✦ TRS-DOS, MS-DOS, Win95, Solaris
- ✦ *WindowsNT* and *Linux*



## Student Background

- ✦ Who are you?
  - Name
  - Class (freshman, junior ...)
  - Major (CS, EE, Basket Weaving ...)
- ✦ C experience
- ✦ Linux experience
- ✦ Operating Systems?
- ✦ Other



## Syllabus Stuff

- ✦ <http://www.cs.wpi.edu/~claypool/courses/3013-A00/>
- ✦ TAs: Hari Kannan, Jae Chung
- ✦ Office hours: (TBD, see Web page)
- ✦ Email
- ✦ Text Book



## Course Structure

- ✦ Prerequisites
  - C programming (must)
  - Machine organization (recommended)
  - Unix (recommended)
- ✦ Grading
  - Homework (10%)
  - Exams (50%)
  - Projects (40%)
  - Attendance (100% ... kidding)



## Homework

- ✦ “Paper” problems
- ✦ Designed to get you ready for exam
- ✦ Stress ideas taught in class
  - (Oh yeah, do come to class)
- ✦ Not done in groups



## Exams

- ✦ 2 exams
- ✦ 50% of grade
- ✦ Non-cumulative
- ✦ Closed-note
- ✦ Closed-book
- ✦ Closed-friend
- ✦ Cheat-sheet?



## Projects

- ✦ 4 projects (well, sorta 5)
- ✦ Implementation in Linux!
  - “Fossil Lab”
- ✦ Groups!
  - Group names to Tas
  - Assign root password
- ✦ Project 0
  - admin, tools, kernel ...



## Slides

- ✦ On the Web
- ✦ PPT and PDF
- ✦ “Today’s Slides”
  - Say, 12:00-12:30
  - Will send email
- ✦ Caution! Don’t rely upon the slides alone!  
Use them as supplementary material
  - (come to class)



## Why This Class?

- ✦ WPI CS requirements
  - “core course” for majors
- ✦ Combines CS concepts
  - algorithms, languages, data-structures, hardware
  - system design w/tradeoffs
- ✦ Better use of the computer
- ✦ C programming in Unix environment
  - Networks, Distributed Computing Systems
  - WebWare
- ✦ Fun!

