



## 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 (2000)* and *Linux*



## Student Background

- Who are you?
  - Name
  - Class (freshman, junior ...)
  - Major (CS, EE, Basket Weaving ...)
- C experience
- Intro course: cs1005, cs1006, other?
- Linux experience
- Operating Systems?
- Other (Super Bowl predictions)



## Syllabus Stuff

- <http://www.cs.wpi.edu/~claypool/courses/3013-B01/>
- TAs: Hari Kannan, Ji Chen, Choong-Soo Lee
- Office hours: (see Web page, some TBD)
- Email
- Text Book(s)



## Course Structure

- Prerequisites
  - C programming (must)
  - Machine organization (recommended)
    - + Chapter 2 in Silberchatz text
  - 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
  - (come to class)
- Not done in groups



## Exams

- 2 exams
- 50% of grade
- Non-cumulative
- Closed-note
- Closed-book
- Closed-friend
- One-page Crib-sheet



## Projects

- 3 projects (plus some extras)
  - C/C++, CCC machines
- Last project implementation in Linux!
  - “Fossil Lab”
- Groups!
- Project 0
  - Unix dabbling
  - Fossil “proj0” later
    - + admin, tools, kernel ...



## Slides

- On the Web
- Powerpoint and PDF
- 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!

