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 System
  – WebWare
• Fun!