CS525u
Multimedia Computing

Spring 2001
Mark Claypool

Topics
• Background
• Admin Stuff
• Motivation
• Objectives
• Multimedia!

Professor Background
(Who am I?)
• Dr. Mark Claypool (professor, “Mark”)
  – “Quality Planning for Distributed, Collaborative Multimedia Applications”
  – systems
• Research interests
  – Networks (routing, congestion)
  – Information filtering (collaborative filtering)
  – Multimedia performance

Student Background
(Who are you?)
• Name
• Year (1st, 2nd …)
• Degree (MS, PhD, CE…)
• Area (CS, ECE, ND)
• C experience
• Linux experience
• Multimedia use?
• Other (Super Bowl predictions)

Syllabus Stuff
• http://www.cs.wpi.edu/~claypool/courses/525-S01/
• Office hours:
  – Tues 2-3, Wed 1:30-2:30, Fri 10-11
  – See Web page
• Email

Text Book
• None
• Research paper, book chapters
  – Copied
  – Bound in Boynton
• $15 to dept office
• Read by you
• Presented by me
• Regurgitated on exam
• “Recommended” texts
Topics

- Introduction
- Multimedia Transport Protocols
- Multimedia Multicasting
- Multimedia Perceptual Quality

(Networking Emphasis)

Course Structure

- Prerequisites
  - Operating Systems (CS502, recommended)
  - Computer Networks (CS513, recommended)
  - Unix development experience (recommended)
  - No multimedia experience required
- Grading
  - Exams (50%)
  - Projects (50%)
  - Attendance (100% ... kidding)

Exams

- 2 exams
- 50% of grade
- Non-cumulative
- Closed-note
- Closed-paper
- Closed-friend
- One-page “crib-sheet”

Projects

- 4 projects
  - Implementation in Linux!
  - Other platforms possible, but not supported
- Groups!
  - 2 best, 3 possible
  - One grade for all
  - Know material!
- Internet Phone Applications!
  - 1- audio, 2- working, 3-mcast ...

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 something)
- Multimedia is cool!
  - algorithms, HCI, networks, hardware...
  - (Sex-appeal)
- Special-topics class
  - (Must be better than run-in-the-mill courses)
- Programming
  - The more you do, the better a scientist you are
  - Distributed systems
- Fun!