



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
- Multimedia Repair
- Media Scaling
- Multimedia Operating Systems
- Multimedia Retrieval 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!

