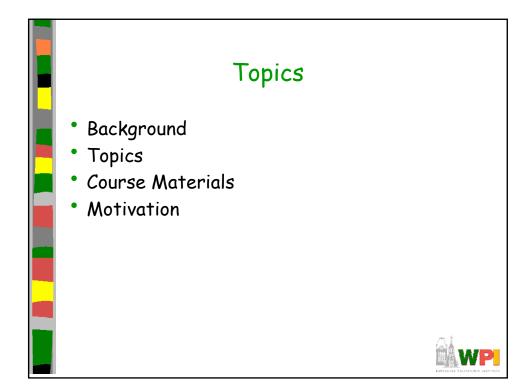
## IMGD 1001 The Game Development Process Mark Claypool



### Professor Background (Who am I?)

- Dr. Mark Claypool (professor, "Mark")
  - Computer Science
  - CS3103 Operating Systems
  - CS4513 Distributed Computer Systems
  - IMGD1001 (3rd offering)
- Research interests
  - Networks, Multimedia, Network games, Performance



### Student Background (Who Are You?)

- Year (freshman, sophomore, ...)
- Major (IMGD (Art or Tech), CS, HUA, ...)
- Programming Classes
- Gamer: (casual) 1 to 5 (hard-core)
- Number of Games Built (zero is ok)
- Other ...



## What Do You Think Goes Into Developing Games?

- Choose a game you're familiar with
- Assume you are inspired (or forced or paid) to reengineer the game
- Take 3-4 minutes to write a list of the tasks required
  - Chronological or hierarchical, as you wish
  - Include your name of game and your name
    - (I'll collect and read, but not grade)
- Trade write-ups with another student
- What do we have?



### Syllabus Stuff

http://www.cs.wpi.edu/~claypool/courses/1001-E06/

- Office hours:
  - By Appointment
- Email:
  - {claypool} at cs.wpi.edu
  - id111x-ta at cs.wpi.edu
  - id111x-all at cs.wpi.edu



### Course Materials

- Slides
  - On the Web
  - PPT and PDF
  - Caution! Don't rely upon the slides alone! Use them as supplementary material
    - (come to class)
- Timeline
  - Tentative planning
- Resources
  - Game creation toolkits, documentation, etc.



### Text Books

- Select chapters from text books
  - Pickup from Campus Bookstore
- See Web page for full list
- Reading list provided on Web page



### Course Structure

- Prerequisites
  - None!
  - Neither Programming nor Art
- In-Class
  - Lecture
  - Discussion
  - Exams

- Out-of-Class
  - Reading
  - Projects
- Grading
  - Exams (45%)
  - Projects (45%)
  - Other (10%)

(More on Exams and Projects, next)



### Exams

- 2 exams
- 45% of grade
- Non-cumulative
- Closed-note
- Closed-paper
- · Closed-friend
- One-page "crib-sheet" (handwritten)



### Projects (1 of 2)

- About 5 projects
- 45% of your grade
- Individual or Group of 2 (scale 1.5 for group)
- Apply concepts taught in class
- Related to Game Development
- Build upon each other
  - Should have working game at end!



### Projects (2 of 2)

- Project 1: Game Inception and Design
  - Inspiration of a game, design and documentation
- Project 2: Content Creation
  - Create 2-d animated sprites (or other art) and select supporting content
- Project 3: Game Logic
  - Implement game objects and game rules
- Project 4: Level Design
  - Put above components together in compelling game
- Project 5: Game Evaluation and Testing
  - Critique each other's games
- Project pitch
  - To panel of experts



### **Topics**

- Game Design
  - The Creative Process
  - Design Documentation
- Artistic Content Creation
  - Color and Displays
  - 2D and 3D
    - Graphics
    - Animation
  - Audio
    - Music
    - Sound Effects

- Engineering
  - Game Architectures
  - Programming
- Team Management
- Misc
  - Release
  - Postmortem



# Why This Class? • IMGD requirements (Core Course, see www.wpi.edu/+IMGD) IMGD Core Artistic Area Area Introduction to steps of Game Development In depth in Area • Fun! ("passion for games")