## Short Term 3 week Plan

## CSCI 4070 & 6070 *Introduction* Game Programming

## [heavy programming focus]

## **Course Overview**



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Today go over expectations and course plan

### Next Week

- » History of Games and background
- » Case Study: Mojang movie
- Following week (lecture oriented)
  - » Introduction to game programming (tutorial based)
  - » TED talk (Will Wright's Spore Talk 16 minutes)
  - » Create a simple game. [theme of course: simple/ basic tutorials to provide fundamentals for hackathons and projects]
  - » Hackathon introduction

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## Administration / Logistics

- Who am I?
- » Office: Boyd 219C
- Class:
- » Check Web Page
- maria.hybinette@mac.com
- Office Hours: Thursday after class
  - » And by e-mail appointment
- TA: TBD check class web page for updates... office hours ... Maria Hybinette, UGA



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## **The 3 Communication Links**

- 1. Web Page (different from image on right), navigate via:
- 2. Your responsibility

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- » Understand policies, honor code Work independently on projects
- & homework
- Check page often for updates "refresh" to get latest copy 3. Email list (tentative name)
- piazza! Setting up.



**Course Outline** 

- Learn about creating games on different platforms, environments
  - » Understand what a game engine provides.
- Learn about using different gaming engines and
- environments
  - » 2D: HTML5/Canvas Game Engine : ImpactJS (\$99 not free),
  - » 3D Unity (free),
  - » Python/Pygame
- Algorithms:
  - » Path planning,
  - » Intelligent behaviors (tentatively)
  - » Events, Physics: Collision and Animation
- Game History
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## **Course Theme: Gamified Course**

- Self Learning
- Social Learning
  - » Learn from your peers
  - » Interact with your peers
  - » While maintaining integrity
    - end up with a game that you created not your peers (no line by line sharing, concept sharing is OK)
- Practice programming
  - » Create a game under different time constraints
  - Within the class : Hackathons
  - Within 12 hours : Embellish Hackathon Code
  - : HW - Within 20 hours
- 1 -2 weeks, .. & 2-3 weeks (final project) te UGĀ

• Hands on programming (heavy focus),

## The Truth: Time Commitment

- "A sword wielded poorly will kill it's owner"
  - -- Ancient Proverb
- Game programming is time consuming and not for everyone, even if it may sound fun to everyone ... but it is not for everyone...
- 9-10 hours per week
  » You will learn a lot of material on your own.

https://en.wikipedia.org/wiki/Course\_credit

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## How to get an A? B? C?... F?

Theory 40%

» 2 Exams (10% each) + Final 15% + { Homework, quizzes } 05% = 40%

- Practice 50%
  - » Projects planning/design
  - » Hackathons –think on your feet (90% if complete it in 10 hours before midnight)
     Should raise your grade
- A+ if you do complete it in class.
- Participation 05%
  - » 100% attendance will raise your final grade by 2%
  - » Constructive participation on class list may raise your grade by ½ %
- Demos: you need 'volunteer' for at least one show and tell.

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## **Tentative/past projects for class**

- Projects using different gaming engines
- HTML5, JavaScript, PyGame, and Unity.
- Class Presentations: Social Media Games: Facebook Game / Case Studies. (Social Media
- (see cover page of class)

## Games

- http://cobweb.cs.uga.edu/~wah/games/Mario/index.html
- http://cobweb.cs.uga.edu/~ja/P2/index.html
- http://cobweb.cs.uga.edu/~burghaus/SaveBaseball/
- WASD: http://localhost/~ingrid/WASD/
- StarCraft: http://hollums.github.io/games/SCBELdeploy/index.html
- Pacman: http://hollums.github.io/games/Pac-Man/pacman.html
- file:///Users/ingrid/Library/Mail/V3/AosIMAP-maria.hybinette/INBOX.mbox/ DD53B8DA-4EF8-45A5-B277-A8D41C1BA453/Data/1/7/0/1/Attachments/ 1071960/2/impactJSProject/lady\_killer/index.html

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## **Homework 1**

- See schedule for details...
- Digital Image --How to get out of the dog pound (and improve your grade).



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