

Short Term Plan

CSCI 4070 & 6070 Introduction Game Programming

[heavy programming focus]

Course Overview



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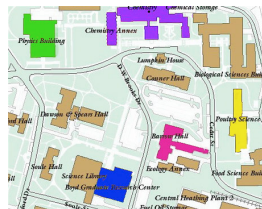
- Today go over expectations and course plan
- Wednesday we will start movie (total time 1:45 minutes – 105 minutes)
- Thursday Continue movie & discussion (start right at beginning of class).
- Next week:
 - » introduction to game programming
 - » Game programming history
 - » Create a simple game.

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Administration / Logistics

- Who am I?
 - » Office: Boyd 219C
- Class:
 - » Boyd 208
- maria@cs.uga.edu
- Office Hours: Thursday After Class
 - » And by e-mail appointment
- TA: TBD - check class web page for updates... probably none...



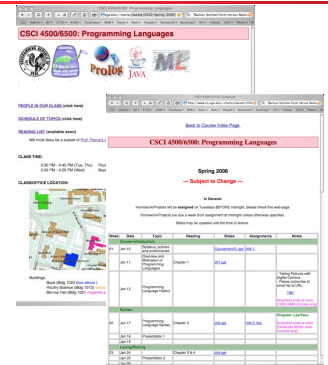
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The 3 Communication Links



1. Web Page (different from image on right), navigate via: www.cs.uga.edu/~maria/
 2. Wiki Page (linked via web site) Post project gallery there.
- Your responsibility
 - » Understand policies, honor code
 - » Work independently on projects & homework
 - » Check page often for updates "refresh" to get latest copy
 - 3. Email list (tentative name)
 - CS-GAMING@listserv.uga.edu



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Course Objectives

- Learn about the fundamentals of gaming and virtual worlds
- Learn about difference gaming engines and environments (HTML5, Blender, **Unity (not free)**, Python/Pygame)
- Events, Collision and Animation
- Hands on programming (heavy focus).
- Multiplayer games
- Game History.



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How we're going to do it

- Read & Listen
 - » Web resources, papers & tutorials. (there may be a text book required, and it will be available on amazon, and hopefully halfbook.com)
- Practice
 - » 2-3 introductory programming assignments
 - » 1 final **team** project – game programming project
 - Proposal, Interim reports/presentations
 - Final Report & Presentation
 - » Technical paper summaries & OR Game/Tutorial presentations
 - Learn how to read/skim papers
 - Learn how to create effective tutorial
 - Learn how to filter out important characteristics of a Game/ or Game environment
 - present & listen to your peers
 - Learn how to make a nice presentation - friendly environment
- Test
 - » 2 Midterms, 1 Final, Quizzes
- Talk and think in class, and outside!

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

- Theory 40%
 - » 2 Exams (10% each) + Final 15% + Quizzes 05% = 40%
- Practice 55%
 - » Homework, weekly summaries & presentation & programming assignments
- Participation 5%
 - » 100% attendance will **raise** your final grade by **2%**
 - » **Constructive** participation on class list may raise your grade by **1%**



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

| | | | |
|-----|----|----|----|
| 100 | A | 79 | B- |
| 99 | A | 78 | C+ |
| 98 | A | 77 | C+ |
| 97 | A | 76 | C+ |
| 96 | A | 75 | C |
| 95 | A | 74 | C |
| 94 | A | 73 | C |
| 93 | A | 72 | C |
| 92 | A | 71 | C- |
| 91 | A- | 70 | C- |
| 90 | A- | 69 | C- |
| 89 | A- | 68 | D+ |
| 88 | B+ | 67 | D+ |
| 87 | B+ | 66 | D+ |
| 86 | B+ | 65 | D |
| 85 | B | 64 | D |
| 84 | B | 63 | D |
| 83 | B | 62 | D |
| 82 | B | 61 | D- |
| 81 | B- | 60 | D- |
| 80 | B- | 59 | D- |
| | | 58 | F |



Policy on Collaboration

- Assignments/projects/summaries:
 - » Purpose: familiarization of concepts and details of programming languages
 - » Work on project independently:
 - No direct sharing of code
 - No line-by-line assistant
 - No exchange of code
 - » You are encouraged to ask questions of one another, and to respond to other student's questions (and especially on the email list)
- Exams:
 - » Closed-book. No outside assistance is permitted. No additional materials may be used.
 - » **No make-up tests** unless absence is due to **serious** illness. Doctor's diagnostic note is required. The final grade will be scaled accordingly.

Paper Summaries

- 1 page summary of an assigned technical paper -- need to reflect that you understand the paper and its contribution(s) to the area:
 1. What is the problem that the authors are trying to solve?
 2. What is their approach and how is it original?
 3. What are the assumptions/limitations?
 4. What are the results/impact of paper (Why is this paper important)?
 5. What constructive criticism can you give to the presenter (e.g. would should have been included/excluded)?

Paper/Tutorials Presentations

- 1-2 presentations will be expected, needs to be in power point.
- We will assign presentations next week.
 - » Caveat: If someone signs up for a paper and then later drops, we will need to shift the last scheduled person to the empty slot(s) (other volunteers are welcomed and will be solicited in class).
- Format:
 - » A mini-conference
 - » Audience will also be given an evaluation sheet to fill out.
 - » 2 Session-Chairs (with prepared questions part of presentation grades).

Paper Presentations

- Turn in:
 - » Presenter:
 - Turn in .pdf of slides
 - 1 summary
 - » Session Chairs:
 - Turn in questions & answers
 - 1 summary
 - » Rest of class:
 - 1 summary

Project Summaries

1. What is the problem that the authors are trying to solve?
 - » Why is the problem important?
2. What is their approach and how is it original and innovative? (original - compare it against contemporary approaches).
3. How is the approach evaluated?
 - » What are the simplifying assumptions?
 - » What are the strength and weaknesses of their solution?
4. What are the results/impact of paper
 - » Why is this paper important?
 - » Did they solve the problem?
 - » Does it have an impact - is it still relevant? Why is it worth reading.
5. What constructive criticism can you give to the presenter (e.g., would should have been included/excluded, make sure to address 'concepts' covered in the paper and relate how they were covered by the presenter).

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Tentative/past projects for class

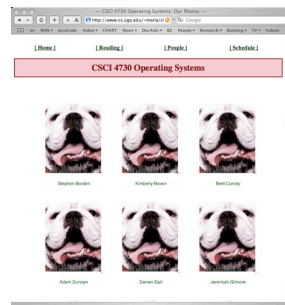
- Projects using different gaming engines
- HTML5, Javascript, Pygame, Blender and Unity.
- (see coverage of class)

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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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Introductions: Also Turn in

- Name, major, year?
- What are you hoping to learn from the class?
- What is your background?
- What type of computer platforms do you win,
 - » Model/brand, memory, processor (be specific)
- What type of projects are you interested in?
- What do you want to do when you graduate?

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