DM-UY 2153-A INTRO TO GAME DEVELOPMENT CS-UY 3233-A GAME DEVELOPMENT STUDIO 1

MW 12:30 - 2:20

2 Metrotech Center, Room 817

3 units, Fall 2015

INSTRUCTOR:

Robert Yang <ry14@nyu.edu>, office hours by appointment

DESCRIPTION:

This class introduces the principles of analog and digital game design. Students learn about a range of game types and understand their conceptual building blocks. Students complete a structured sequence of assignments toward the completion of game project(s).

LEARNING GOALS / OUTCOMES:

- Understand basic game design concepts, processes and terminology (analog games)
- Acquire a critical understanding of digital media (specifically, digital games)
- Develop competency in basic 00 programming (in a game development context)
- Develop competency in industry-standard commercial software (Unity3D)

PRIMARY READINGS:

- Game Design Workshop, by Tracy Fullerton et al. (2008)
- various games that you will be expected to play for at least 30+ minutes

MATERIALS / TOOLS: (for 2nd half of semester)

- a laptop computer of some sort... the lab workstations are generally unreliable for this
- Unity, free version unity3d.com DON'T PIRATE IT, IT'LL BE AN OLD BUGGY VERSION

ASSIGNMENTS:

- Weekly DESIGN EXERCISES... analog exercises are groups, digital exercises are individual
- Weekly JOURNALS about readings / play.
 - Write 150+ words (that's not a lot, tbh) in response to the weekly prompt.
 - You MUST quote any assigned readings at least twice, or you will lose credit.
- Turn-in homework at: **github.com/radiatoryang/poly_gamedev_fall2015**
- MIDTERM group project: nondigital 2+ player game following a secret theme
- FINAL group project: a digital 2+ player game following a secret theme

COURSE STRUCTURE:

- Showing up is the most important part of class. You MUST attend both days each week.
- After two (2) unexcused absences, your grade will begin going down one grade level for every additional unexcused absence. (e.g. A > B)... Four (4) is grounds for failure.
- Tuesday is usually more structured LECTURE. Thursday is more self-directed LAB time.

THERE IS NO FINAL EXAM. Ignore the registar / final exam schedule for this class.

- (9/2) WEEK 1: *** NO MONDAY CLASS *** intro, what's game dev? lab-mod Turtle Wushu Homework: read + journal Fullerton ch. 1, write out a complete Wushu variant
- (9/9) WEEK 2: *** NO MONDAY CLASS *** formal elements, lab-mod Checkers Homework: read + journal Fullerton ch. 2, play Go / Way to Go #1-10 tutorial
- 9/14 WEEK 3: depth and accessibility, 20 Questions exercise, play Werewolf **Homework: read + journal Hunicke MDA paper, reverse-engineering lab**
- 9/21 WEEK 4: survey of track games, ideation processes !!! BEGIN MIDTERM PROJECT !!! Homework: read + journal Fullerton ch. 3, group-design and bodystorm midterm
- 9/28 WEEK 5: playtest midterm, intro to game studies, the magic circle, cheaters **Homework: read + journal Rooie Rules, cheat / spoil a game, playtest midterms**
- 10/5 WEEK 6: playtest midterm, let's think about sports
 Homework: read + journal Fullerton ch. 9, document + run midterm project playtest
- (10/13) WEEK 7: *** MONDAY IS ON TUESDAY (10/13)*** !!! MIDTERM DUE ON WEDS !!!

 Homework: download + install Unity on your laptop, do diagnostic worksheets
- 10/19 WEEK 8: intro to Unity, working with 3D space and assets, exporting **Homework: read + journal "The Door Problem", play Proteus, make a poetic landscape**
- 10/26 WEEK 9: intro to Unity C# code, if statements, basic UI in Unity Homework: read + journal 10PRINT ch. 10+25, play Rat Chaos, make a text adventure
- 11/2 WEEK 10: vector math, moving stuff around, physics

 Homework: read + journal "What Do Prototypes", play Crayon Physics, make Goldberg
- 11/9 WEEK 11: physics applications, triggers and addforce !!! START FINAL !!!

 Homework: read + journal Fullerton ch. 7, group-design and brainstorm project
- 11/16 WEEK 12: scripting game logic, planning production and collaboration Homework: read + journal "The Nebraska Problem", iterate on final project
- 11/23 WEEK 13: *** NO WEDNESDAY CLASS *** playtest final project! Homework: read + journal Fullerton ch. 15, iterate on final
- 11/30 WEEK 14: juice it or lose it, on game feel, playtest final project **Homework: read + journal Zinesters ch. 1, play Unmanned, iterate on final**
- 12/7 WEEK 15: triage and crisis management, playtest final project **Homework: read a project post-partum, iterate on final**
- 12/14 WEEK 16: !!! PRESENT FINAL !!! eat some cake? deliverables due on 12/21

IDM PROGRAM LEARNING OBJECTIVES

- develop conceptual thinking skills to generate ideas and content in order to solve problems or create opportunities.
- develop technical skills to realize their ideas.
- develop critical thinking skills that will allow them to analyze and position their work within cultural, historic, aesthetic, economic, and technological contexts.
- gain knowledge of professional practices and organizations by developing their verbal, visual, and written communication for documentation and presentation, exhibition and promotion, networking, and career preparation.
- develop collaboration skills to actively and effectively work in a team or group.

ASSESSMENT:

Students will be graded primarily on demonstrated process and technique. Students will be given grades based on a 100-point scale. Each assignment will be graded on a point scale, and these points will be added up to determine the final grade, according to the following: 98-100 A+, 92-97 A, 90-91 A-, 88-89 B+, 82-87 B, etc.

The following are the components of the grade:

Attendance & participation: 20%; Homework / Journal: 20%; Midterm: 20%

Final: Alpha milestone 15%; Final: Gold milestone 20%; IDM Work Documentation 5%

ATTENDANCE AND PARTICIPATION:

The attendance and participation portion of your grade is based on the following:

- Your attendance in class and tardiness. After 2 unexcused absences, every further absence will decrease your class grade by a level (e.g. A >> B)... 4 is grounds for failure.
- Participation in group discussions and critiques
- Peer grades and participation in writing group evaluations

STUDENT DOCUMENTATION

Students must document their FINAL project on IDM servers located at sites.bxmc.poly.edu For webspace / instructions / access, please contact: Elton Kwok, IDM Technology Director, MAGNET 883, eltonkwok@nyu.edu, for space on sites.bxmc.poly.edu.

STATEMENT OF ACADEMIC INTEGRITY

Plagiarism is presenting someone else's work as though it were your own: A sequence of words quoted without quotation marks from another writer or a paraphrased passage from another writer's work or facts, ideas or images composed by someone else. engineering.nyu.edu/academics/code-of-conduct/academic-dishonesty

ACCESSIBILITY

Academic accommodations are available for students with documented disabilities. Please contact the Moses Center for Students with Disabilities at 212-998-4980 for further information.