

# DM-UY 2153-B:

# Intro To Game Development

Mon. & Wed., 4:30p – 6:20p  
2 Metrotech Center, Room 817  
3 units, Fall 2015

## INSTRUCTOR:

Diego Garcia <deg346@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 OO 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 2<sup>nd</sup> 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 unity pro. It'll be old and buggy. Let's work together with the free version!! It's free, so like...)
- SourceTree (Also free. I love that about it.)

## 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, tbqh imho) 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/radstronomical/poly\\_gamedev\\_fall2015](https://github.com/radstronomical/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.
- Monday is usually more structured LECTURE. Wednesday is more self-directed LAB time.

THERE IS NO FINAL EXAM. So nice! Ignore the registrar / final exam schedule for this class.

SCHEDULE (\* tentative, subject to change)

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8/31 (9/2)	WEEK 1: *NO MONDAY CLASS* Meet & Greet, Game Dev Overview, Lab: Mod Turtle Wushu Homework: Get Book, Read + Journal Fullerton ch. 1, Write out a complete Wushu variant
9/7 (9/9)	WEEK 2: *NO MONDAY CLASS* Formal Game Elements, Deconstructing Your ~Fav~ Sports Homework: Read + Journal Fullerton ch. 3 & Zimmerman/Salen article, Prototype Abstract Game
9/14	WEEK 3: Depth, Balance, and Accessibility, Playtest Abstract Games, Librande Balance Exercise Homework: Read + Journal Hunicke MDA paper, Continue Abstract Game ;)
9/21	WEEK 4: Games and Stories, Ideation Processes <u>!!! BEGIN MIDTERM PROJECT !!!</u> Homework: Read + Journal Fullerton ch. 13, Group-Design and Bodystorm Midterm
9/28	WEEK 5: Playtest Midterm, Intro to Game Studies, the Magic Circle, Cheaters Homework: Read + Journal Reading TBD, Playtest midterms
10/5	WEEK 6: Playtest Midterm, Games as Art, Games as Communication Tools Homework: Read + Journal Fullerton ch. 9, Do + Document Midterm Project Playtest
10/12	WEEK 7: *MONDAY IS ON TUESDAY (10/13)* Discuss Playtest Results, Lab time <u>!!! MIDTERM DUE ON WED !!!</u> Homework: Download + Install Unity and SourceTree on your laptop, Create a GitHub Account.
10/19	WEEK 8: Intro to Unity, Working with 3D space and Assets, Exporting Homework: Read + Journal Door Problem, play Proteus, Make a Poetic Landscape
10/26	WEEK 9: Intro to Unity C# Code, if(statements) {learn}, Basic UI in Unity Hmwrk: Read/Journal 10PRINT ch. 10+25, play Don't Go in the Old Greene House, make Text Adventure
11/2	WEEK 10: Vector math, Moving stuff around, Physics Homework: read + journal What Do Prototypes..., play Crayon Physics, make Rube Goldberg Machine
11/9	WEEK 11: Physics applications, Triggers and AddForce <u>!!! START FINAL !!!</u> 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 Reading TBD, Iterate on Final Project
11/23	WEEK 13: *NO WEDNESDAY CLASS* Playtest final project, Targeted Question Time! Homework: Read + Journal Fullerton ch. 15, Iterate on Final Project
11/30	WEEK 14: Polish, on Game Feel, Playtest final project Homework: Read + journal Zinesters ch. 1, play Unmanned, Iterate on Final Project
12/7	WEEK 15: Triage and Crisis Management, Playtest final project Homework: Write a Post-Partum, Iterate on Final Project
12/14	WEEK 16: <u>!!! PRESENT FINAL !!!</u> eat some cake? deliverables due on 12/21

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## **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](http://sites.bxmc.poly.edu)  
For webspace / instructions / access, please contact: Elton Kwok, IDM Technology Director, MAGNET 883, [eltonkwok@nyu.edu](mailto:eltonkwok@nyu.edu), for space on [sites.bxmc.poly.edu](http://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](http://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.