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**COLLEGE NOW - Introduction to Game Programming**

Saturday 10am – 1:15PM

North Academic Center (NAC), 6th Floor, Room 104 (6/104)

Instructor Laura Reyes Arias (she/her) email: lreyesarias@ccny.cuny.edu

Office Hours: By appointment only, email to schedule

**Course Objectives & Learning Goals**

This course prepares students to understand the programming syntax and workflow using C# with the Unity Game Engine.

The class will explore the fundamentals of programming, documentation of Unity’s API, and debugging process through the lens of creating small unpolished and unfinished games. The course assumes no prior coding experience, this is not a computer science course.

By the end of the semester, students will learn:

* How to create custom classes containing functions, variables, and logic
* Use code to communicate data between game objects
* Implement triggers and events
* Understand errors and develop debugging techniques
* Become familiar with custom data types unique to Unity’s C#
* Build confidence in your programming ability to apply these skills to future projects

**Course Format**

This class will meet once a week. Students are expected to follow along with the code taught in class.

**Require Materials**

All reading and/or playing materials on the course will be provided by the instructor or freely available online.

There will be computers available for use in class, but personal laptops are allowed and encouraged. All devices used for the class should have the latest version of Unity and Visual Studio installed. Tablets will not run these programs properly; they will only run on laptop or desktop computers.

**Course Assessment and Grading**In all College Now programs, the only passing grades permitted will be A through C. Lower passing grade such as C-, D+, D and D- will be converted to the grade of CR. The CR grade will carry course credit.

Final Grades for this course are calculated using the following breakdown:

Participation/Attendance/Class Work: 30%

Midterm: 30%

Final: 40%

**Attendance**

Attending and arriving on time to all class sessions is required and expected. This includes all labs, lectures, and critiques. It is the student’s responsibility to sign in on the attendance sheet during class. If you are missing a class due to illness, or unavoidable personal circumstances, you must notify your professor in advance via email for the absence to be excused.

Unexcused absences and being late to class will lower your final grade. Two unexcused absences lower your final grade by a letter. Each subsequent unexcused absence will lower another letter grade. Two tardies will count as one unexcused absence. Arriving more than 5 minutes late to class or leaving well before class is over will also count as an unexcused tardy.

**Course Schedule**

(Subject to change)

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| --- | --- | --- |
| **Week** | **Date** | **Class Focus** |
| **Week 1** | Saturday, February 3, 2024 | Syllabus + Version Control |
|  | Introduction to the class and GitHub |
| **Week 2** | Saturday, February 10, 2024 | Pong Clone Part 1 |
|  | Introduction to Unity, Visual Studio and Basic Movement |
| **Week 3** | Saturday, February 17, 2024 | Pong Clone Part 2 |
|  | Colliders, Physics, UI Score |
| **Week 4** | Saturday, February 24, 2024 | Snake Clone Part 1 |
|  | Movement, Prefabs, Instantiation, Randomness |
| **Week 5** | Saturday, March 2, 2024 | Snake Clone Part 2 |
|  | Changing Sprite, Speed, Timer |
| **Week 6** | Saturday, March 9, 2024 | Midterm Work Lab |
|  | Start your midterm |
| **Week 7** | Saturday, March 16, 2024 | Midterm |
|  | Show Midterm |
| **Week 8** | Saturday, March 23, 2024 | Point & Click Game Part 1 |
|  | Clickable Objects and Buttons |
| **Week 9** | Saturday, March 30, 2024 | Point & Click Game Part 2 |
|  | Dragging, Point & Click Movement |
| **Week 10** | Saturday, April 6, 2024 | Platformer Part 1 |
|  | Movement, Jump and Camera |
| **Week 11** | Saturday, April 13, 2024 | Platformer Part 2 |
|  | UI Health Bar, Enemies |
| **Week 12** | Saturday, April 20, 2024 | Platformer Part 3 |
|  | Scene Management |
| **Week 13** | Saturday, May 4, 2024 | Final's Work Lab |
|  | Start your final |
| **Week 14** | Saturday, May 11, 2024 | Final's Work Lab |
|  | Continue working on your final |
| **Week 15** | Saturday, May 18, 2024 | Final Class |
|  | Prepare your final |

# College Policies

What follows are critical resources and policies at CCNY around expected classroom behavior, offices on campus for student needs, and resources students can access.

[CCNY’s Statement on Community Standards](https://www.ccny.cuny.edu/studentaffairs/community-standards)

A statement of CCNY’s academic community goals and expectations:

[CCNY’s Statement on Antiracism and Discrimination](https://www.ccny.cuny.edu/presidentsoffice/blog/statement-office-diversity-and-compliance)

Diversity, inclusion, and an environment free from discrimination are central to the mission of City College. During these difficult times, we want to remind you that City College remains a diverse learning community dedicated to promoting a culture of respect. While we move to distance learning alternatives, City College and CUNY Policies remain in effect. Acts of discrimination, harassment or exclusion run counter to our institutional values and contrary to CUNY Policy. As we respond to the uncertain and rapidly changing coronavirus (COVID-19) threat, it is essential that we remain supportive and respectful of all members of our community. While organizations far and wide grapple with increased xenophobia and racism, we ask you to stand against this concerning trend by encouraging a sense of inclusion and belonging in our community. Fear and misinformation do not excuse discriminatory behavior.

If you have experienced discrimination, we encourage you to contact the Chief Diversity Officer, Diana Cuozzo, at [dcuozzo@ccny.cuny.edu](mailto:dcuozzo@ccny.cuny.edu) or (212) 650-7330. To access CUNY's Policy on Equal Opportunity and Non-Discrimination, please click [here](https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/hr/policies-and-procedures/CUNYPolicy-Equal-Opportunity-and-Non-Discrimination-010115-procedures.pdf).

If you have experienced or have information regarding sexual misconduct, we encourage you to contact the Title IX Coordinator, Diana Cuozzo, at [dcuozzo@ccny.cuny.edu](mailto:dcuozzo@ccny.cuny.edu) or at (212) 650-7330. To access CUNY's Policy on Sexual Misconduct and the CUNY Students' Bill of Rights, please click [here.](https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/ovsa/policies/Sexual-misconduct-8.30.18-PSM-2018-005.pdf)

If you have experienced sexual or gender-based violence and would like to speak with someone confidentially please contact the Psychological Counselor/Confidential Advocate, Sophie English, LCSW at [senglish@ccny.cuny.edu](mailto:senglish@ccny.cuny.edu) or (212) 650-8905 to set up a phone consultation. Sophie provides clinical services, consultation on reporting options, and referrals to community organizations. More information on these services can be found [here.](https://www.ccny.cuny.edu/affirmativeaction/title-ix-confidential-services-counseling-and-advocacy)

If you have an emergency on campus please contact Public Safety at (212) 650-7777 and off campus call 911.

[Academic Integrity Policy](https://www.cuny.edu/about/administration/offices/legal-affairs/policies-resources/academic-integrity-policy/)

Academic dishonesty is prohibited in The City University of New York. Penalties for academic dishonesty include academic sanctions, such as failing or otherwise reduced grades, and/or disciplinary sanctions, including suspension or expulsion.

**Plagiarism** is the act of presenting another person’s ideas, research or writing as your own. Examples of plagiarism include:

* Copying another person’s actual words or images without the use of quotation marks and footnotes attributing the words to their source.
* Presenting another person’s ideas or theories in your own words without acknowledging the source.
* Failing to acknowledge collaborators on homework and laboratory assignments.
* Internet plagiarism, including submitting downloaded term papers or parts of term papers, paraphrasing or copying information from the internet without citing the source, or “cutting & pasting” from various sources without proper attribution.

[AccessAbility Center and Procedures for Filing Discrimination Complaints](https://www.ccny.cuny.edu/accessability)

The AccessAbility Center/Student Disability Services (AAC/SDS) ensures full participation and meaningful access to all of The City College of New York's (CCNY) services, programs, and activities in compliance with the Americans with Disabilities Act of 1990, The Amendments Act of 2008, Section 504 of the Rehabilitation Act of 1973, the Fair Housing Act of 1968, and other applicable Federal, State, and local non-discrimination laws.  AAC/SDS accomplishes this goal through the coordination and implementation of academic adjustments, auxiliary aids, and support services for students with disabilities.  The Center actively works toward full inclusion and the removal of access barriers in policies, procedures, and practices.  AAC/SDS engages in increasing disability awareness among members of CCNY community through workshops, trainings, and the dissemination of literature.

The City College of New York and The City University of New York are committed to addressing discrimination complaints promptly, consistently and fairly. Any City College employee, student, applicant for admission or employment or other participant in the College's programs or activities who believes he or she has been unlawfully discriminated against on the basis of age, color, disability, national or ethnic origin, race, religion, sex, sexual orientation, or veteran status may file a complaint in writing with the [Office of Affirmative Action, Compliance, and Diversity](https://www.ccny.cuny.edu/affirmativeaction) using the [Discrimination Complaint Form](https://www.ccny.cuny.edu/sites/default/files/affirmativeaction/upload/Working-Discrimination-Complaint-Formrevised10-8-2014.pdf), by e-mail to the Chief Diversity Officer, Diana Cuozzo, [dcuozzo@ccny.cuny.edu](mailto:dcuozzo@ccny.cuny.edu) , or by stopping in the Office of Affirmative Action, Compliance, and Diversity in Shepard Hall, Room 109. Diana Cuozzo is the 504/ADA Coordinator. Ms. Cuozzo is charged with ensuring that college programs, policies and procedures comply with the American Disabilities Act (ADA), Section 501 and 504 of the Rehabilitation Act of 1973, and other Federal, State, and local laws and regulations pertaining to persons with disabilities. She is reachable by phone at 212.650.6310, or in person in Shepard Hall, Room 109.

[Health and Wellness Center](https://www.ccny.cuny.edu/health-wellness)

Available to students for a variety of critical services including:

* Counseling
* Student Health
* Emergency Grants
* Gender Resources

[The Writing Center](https://www.ccny.cuny.edu/writing)

The City College Writing Center provides one-on-one assistance to undergraduate and graduate students working on course writing assignments. Visit us when you need someone to help you understand your assignment prompt, read your drafts, or just listen to your ideas. Writing tutors will work with you at any stage of your writing process.

[Public Safety](https://www.ccny.cuny.edu/safety)

Our mission is to provide a safe environment to work, live and learn. We do this by protecting the life and property of all students, faculty, staff and visitors. We carry out our mission regardless of ones race, color, religion or creed, national origin, ancestry, citizenship status, sex, pregnancy, sexual orientation or gender identity, age, physical or mental disability or veterans status.

General information number: 212 650 6911

Emergency number: 212 650 7777