25/SP Creative Coding

MEDP-23400-4916
Hunter College
Film & Media
Fall 2024

Class Times / Description

Class Times: 1/30/2025 - 5/22/2025, Thurs 4:00PM-6:50PM

Course Description

This course introduces experimental coding for design through hands-on technical exercises and projects. During the semester, p5.js (JavaScript library) will show the fundamentals of computational design. We will learn techniques to build generative design and digital interaction. This course is designed for students with no prior coding experience. This syllabus is a living document!

_____

Faculty Information
Instructor: Sam Heckle
Pronouns: they / she
Email: samantha.heckle@hunter.cuny.edu
Office Hours: By appointment, on zoom. Please send an email to set a time with me!

_____

Course Outcomes

After completing this course, students will be able to:

- Basic understanding of manipulating data with JavaScript (variables, loops, and arrays)
- Order of logic operations in JavaScript (conditionals and functions)
- Understanding the p5.js library by demonstrating use of effective graphical modifications

_____

Course Requirements

Attendance / in-class participation	15%

In-Class Practice* * These are pass / fail, which means *no resubmissions* and *no late assignments*. You should be finishing these in class but are always due before the next class.	15%
Exercises** ** Exercises are the only assignment type that resubmission*** applies	20%
Midterm Project	20%
Final Project	30%

***Re-submission Policy

You can **resubmit any on-time submitted *exercises*** based on feedback for full credit if you notify me in two ways:

1) send an email with the name of the updated submission
2) write that you updated the assignment in the assignment comments

You can resubmit *exercises* up until 11:59pm before last day of class.

Late Work Policy

Any work is considered late if it is submitted after midnight the day before class begins. For every day the work is late, the student will receive a 10% penalty. ***You are not allowed to resubmit late work for an updated grade.***

On Returning Grades

I will try my best to give you timely feedback on submitted assignments. I generally try to have 4 big grade updates throughout the semester, but try my best to stay on top of weekly feedback.

_____

Required Materials

p5.js Editor – You will need to make an account!
https://editor.p5js.org/
p5.js Reference
https://p5js.org/reference/

_____

Course Outline

Date	Topics
1/30	Lecture: Syllabus Overview, Class Expectations, Introductions Tutorial: Introduction and Drawing in p5.js
2/6	Lecture: Data Storage with Variables Tutorial: Debugging and Animating with Variables
2/13	Lecture: Conditionals Tutorial: Interaction with Conditionals
2/20	Lecture: Code Organization pt. 1 Tutorial: Functions
2/27	Lecture: Repetition Tutorial: Loops (while and for)
3/6	** NO CLASS – School follows Wednesday schedule
3/13	Lecture: Code Organization pt. 2 Tutorial: Arrays
3/20	Midterm Project Presentations
3/27	Lecture: Object Oriented Programming Tutorial: Classes, Review Functions and Arrays
4/3	Lecture: Incorporating SoundTutorial: p5.sound.js
4/10	** NO CLASS – Spring break
4/17	Lecture: Pixels Tutorial: Images, Pixels, and Color
4/24	Lecture: HTML/CSS and the DOMTutorial: p5.js DOM
5/1	Lecture: External Libraries Tutorial: Video, BlasePose, Text

5/8	In-Class Final Project Check-ins & Group Feedback
5/15	Zoom: Final Project Check-ins 1:1
5/22	Final Project Presentations ** Last Day of Class

_____

Policies

Academic Integrity

Academic integrity is a guiding principle of the Hunter College learning community because all students should have the opportunity to learn and perform on a level playing field. Academic dishonesty includes, but is not limited to, cheating, plagiarism, obtaining an unfair advantage, and falsifying records or documents, whether intentional or not.

Hunter College upholds the right to promote academic integrity on its campus as an educational institution of the City University of New York. The College has the responsibility to review all charges of academic dishonesty and implement sanctions, including, but not limited to, failing the course, official transcript notation, suspension or expulsion from the College when it has been determined that academic dishonesty did occur. Please click here to see a full list of disciplinary sanctions.

On Using External Tools (and AI)

We will constantly be checking the p5.js reference site, and we have access to the entire world wide web and all the history of p5.js. **For any project, you must write a short write up of your inspiration and challenges. You must provide links to sketches, stackoverflow, and other non-p5 references you looked at.** I will try and dissuade you from using ChatGPT and other code-generating software since it defeats the purpose of learning how coding works in this artistic capacity. _If you do use any AI tools, you must reference how you used it (provide screenshots of your logs, provide the prompt)_. This includes any AI generated artwork you use as a part of your sketches.

Every assignment will have 25% of the grade for documentation and originality. This is a "do I think you wrote this code" grade, and under further scrutiny if you would be able to explain the code if I asked you to. Copying and pasting from the Internet or another student's work without attributing the source is plagiarism, whether intentional or not. While you may use AI tools like ChatGPT for feedback on how to improve your code, using any AI tools to write your assignments is strictly prohibited and will be treated as plagiarism. Anyone presenting someone else's code as their own, whether from another student, the

Internet or any AI tool generating code that is copied into your work, will receive a 0 for the assignment and will be reported to the Office of Student Conduct.

_____

Accessibility

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (Emotional, Medical, Physical, and/or Learning) consult the Office of Accessibility located in Room E1124 to secure necessary academic accommodations. For further information and assistance, please call (212) 772-4857/TTY (212) 650-3230. If you have registered with the Office of Accessibility, please let me know at the start of the term.

_____

Hunter College Policy on Sexual Misconduct

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment, retaliation against students, employees, or visitors, as well as certain intimate relationships. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct or contacting the College's Public Safety Office (212-772-4444). All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or 212-650-3262) or Colleen Barry (colleen.barry@hunter.cuny.edu or 212-772-4534) and seek complimentary services through the Counseling and Wellness Services Office, Hunter East 1123. CUNY Policy on Sexual Misconduct. Link: http://www.hunter.cuny.edu/diversityandcompliance/repository/files/cuny-policy-on-sexual-misconduct.pdf

_____

Attendance and Participation

Attendance

Students who are late more than twice will result in an absence. Three absences will result in a drop in a letter grade, and four absences will result in automatic withdrawal from the class. There is no distinction between excused and unexcused absences.

Class Participation

By enrolling in this course and entering the classroom, each student makes the tacit commitment to participate in the class. Active class participation involves more than mere physical presence. Students are expected to be actively involved in the class. They should take the initiative in discussion and projects, ask relevant questions, and contribute to the overall learning environment of the class.

It is your responsibility:

1. To prepare for class by having read assignments, written papers and/or prepared projects
2. To actively participate in class discussion and activities;
3. To take notes on discussions, presentations, and activities conducted within the class;
4. To complete all course assignments, even if you are absent from a class meeting.

_____

Pronouns and Chosen Names

Please let your instructor know the preferred name and pronouns by which you would like to be referred, if that information does not already appear on the roster. A student's chosen name and pronouns should be respected at all times.

Counseling and Wellness Services

Counseling and Wellness Services (CWS) is another campus resource and service center for all matriculated students that is operating remotely for counseling services at no cost to all Hunter students. You can make an appointment at: http://www.hunter.cuny.edu/studentservices/counseling-and-wellness.

Communication

Please send me an email (samantha.heckle@hunter.cuny.edu) for *any* type of communication.