



CodeHS

Coding in Art Syllabus

Mini Course (15 Contact Hours)

Course Overview and Goals

Coding + Art is a mini-course that introduces students to the basics of coding through art! In this block-coding environment, students explore the digital art medium by building coding programs that create collages, imitate techniques of famous artists like Jackson Pollock and Andy Warhol, and tell stories through a sequence of multimedia scenes.

Learning Environment: The course utilizes a blended classroom approach. The content is fully web-based, with students writing and running code in the browser. Teachers utilize tools and resources provided by CodeHS to leverage time in the classroom and give focused 1-on-1 attention to students.

Programming Environment: Students write and run JavaScript programs in the browser using the CodeHS editor.

More information: Browse the content of this course at <https://codehs.com/course/4280>

Course Breakdown

Unit 1: Introduction to Generating Art with Code (1-3 hours)

Students are introduced to the JavaScript block coding environment. They learn how to create a computer program that places images and text on a canvas to create their own meme.

Objectives / Topics Covered	<ul style="list-style-type: none">- Creating Art with Memes
Example Assignments / Labs	<ul style="list-style-type: none">● Visual Art in Motion<ul style="list-style-type: none">○ Students learn how art is used in physical spaces.● Make a Meme<ul style="list-style-type: none">○ Students practice generating memes using their new found JavaScript knowledge.

Unit 2: Generating Art with Code (10 - 12 hours)

Students learn how to code computer-generated fractals, filters, and collages. For a final project, students develop a program that tells a story using images, text, and sound.

Objectives / Topics Covered	<ul style="list-style-type: none">- Filtered Collage- Famous Artists- Face Filters- Paintbrush
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	<ul style="list-style-type: none">- Turtle Patterns- Gif Generator- Art Stories- Final Masterpiece
Example Assignments / Labs	<ul style="list-style-type: none">● Inspired Art<ul style="list-style-type: none">○ Students create an art piece inspired by the works of famous artists. Students learn about Warhol and Pollock, and attempt to emulate their styles in JavaScript.● Face Filters<ul style="list-style-type: none">○ Students learn how face filters are generated, and get practice using and manipulating face filters in their own programs.● Narrate a Story<ul style="list-style-type: none">○ Students create a narrative piece of art.