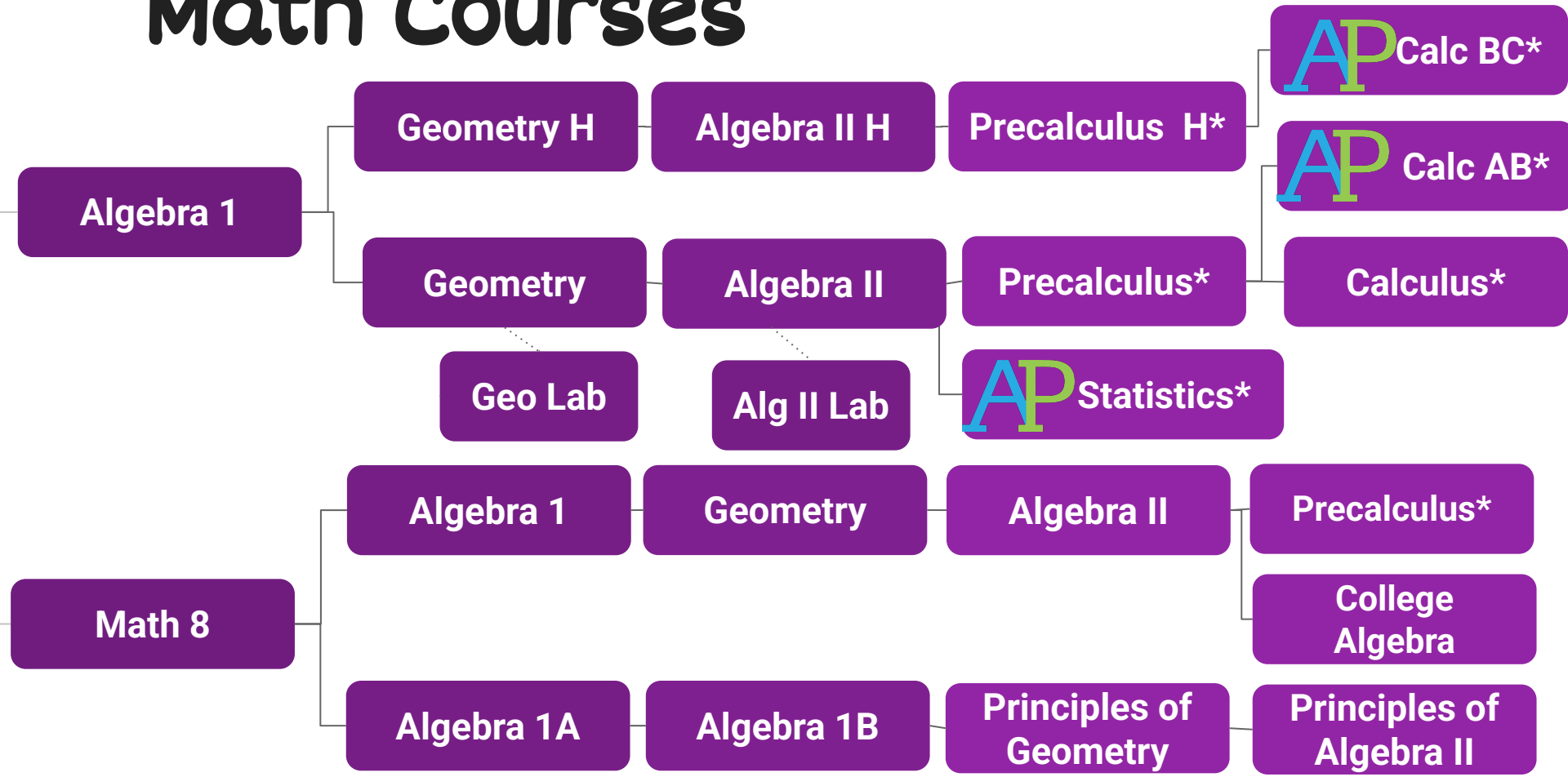
Eastchester High School Mathematics Department

Department Chairperson: Jacquelyn Osmanaj

josm sdk12.org

Grade: 8 9 10 11 12

Math Courses



Geometry/Algebra II Lab

Here are some guidelines to consider when students create their schedule for next year:

Current Course Grade in Algebra 1	Eligibility	Notes
80 or below	Eligible	Strongly encouraged to enroll
80-85	Eligible	Should consider enrolling
85 or higher	Not Eligible	Should enroll in other electives

Additionally, it's important to note:

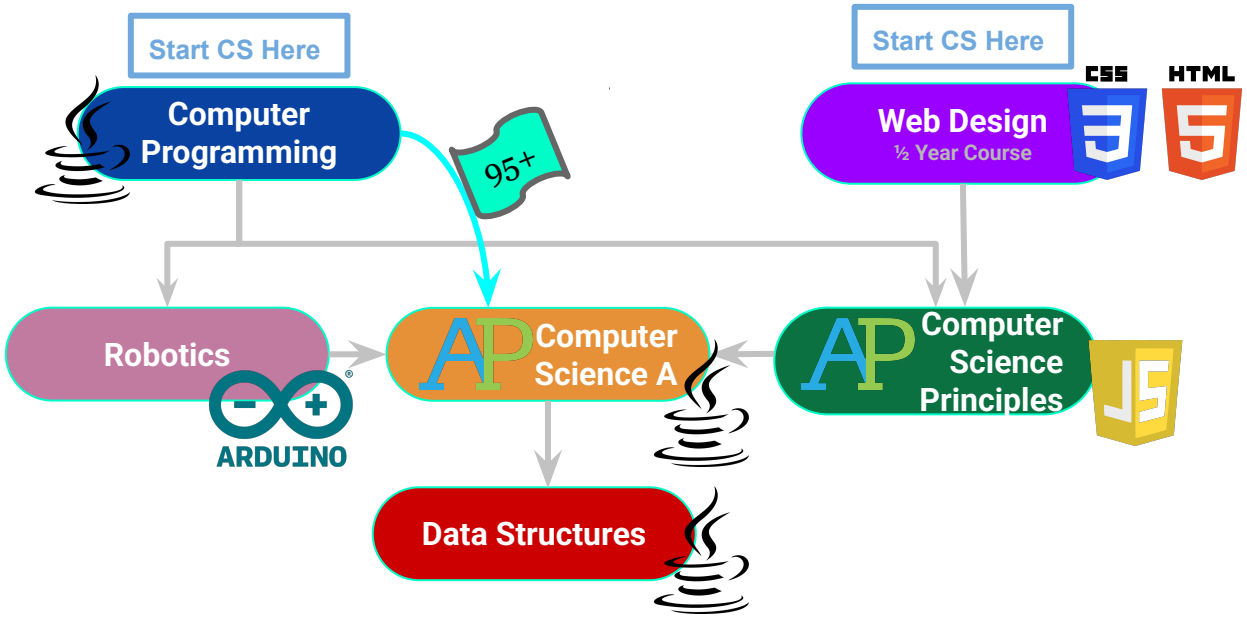
- Lab will not be awarded credit, as it is a support class.
- Lab will not be available for students enrolled in Geometry Honors.

Computer Science

Level 1

Level 2

Level 3



- *Level does not denote grade level, rather progression steps.*

START CS HERE

Computer Programming

- **Full year** course
- Language: Java
- This is an introduction to coding with an emphasis on algorithm design and computational problem solving
- Students will write their own programs
- What's next: Robotics or APCSP

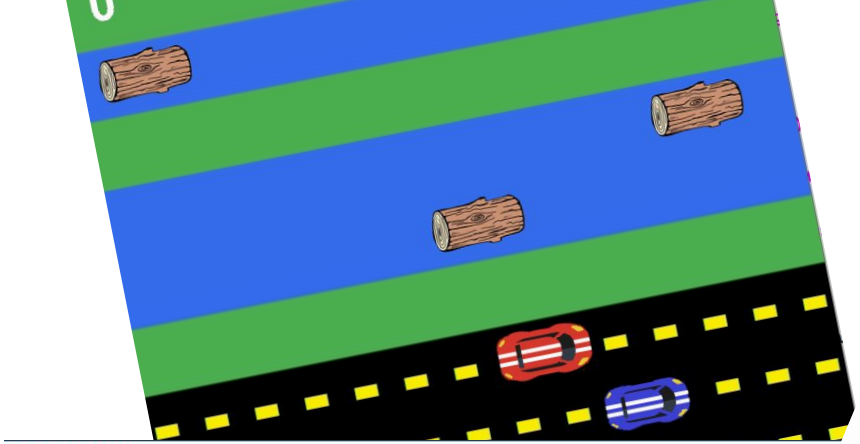
Web Design

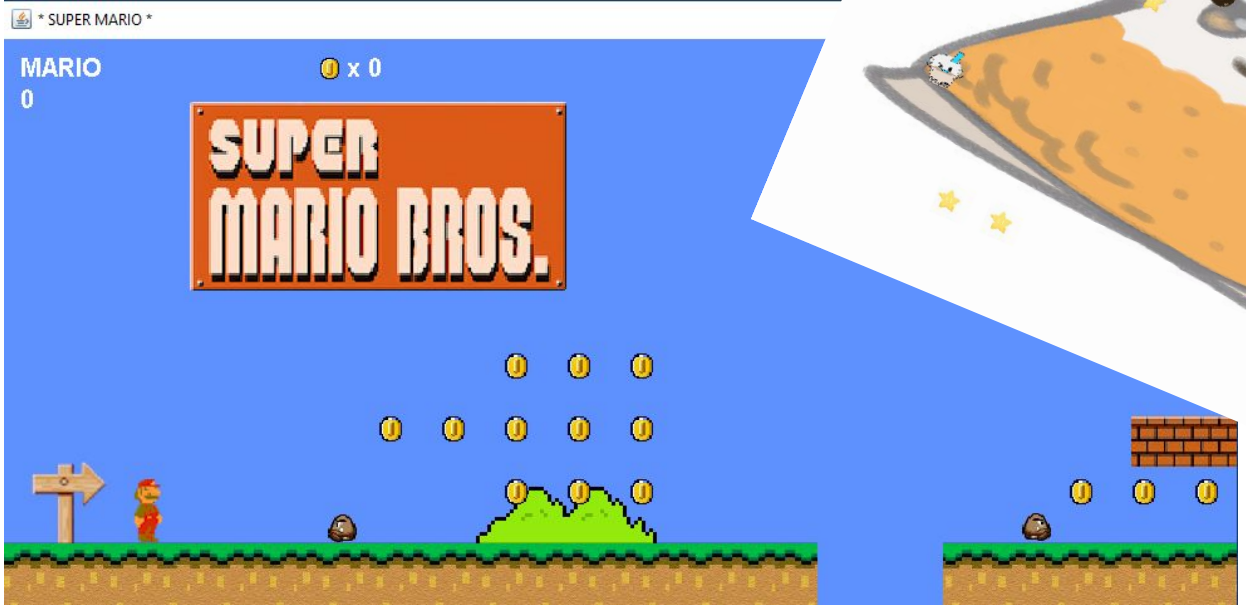
- 1 Semester course
- Language: HTML & CSS
- This is an introduction to web design with an emphasis on design, logical planning and creative thinking
- Students will create their own webpage
- What's next: APCSP

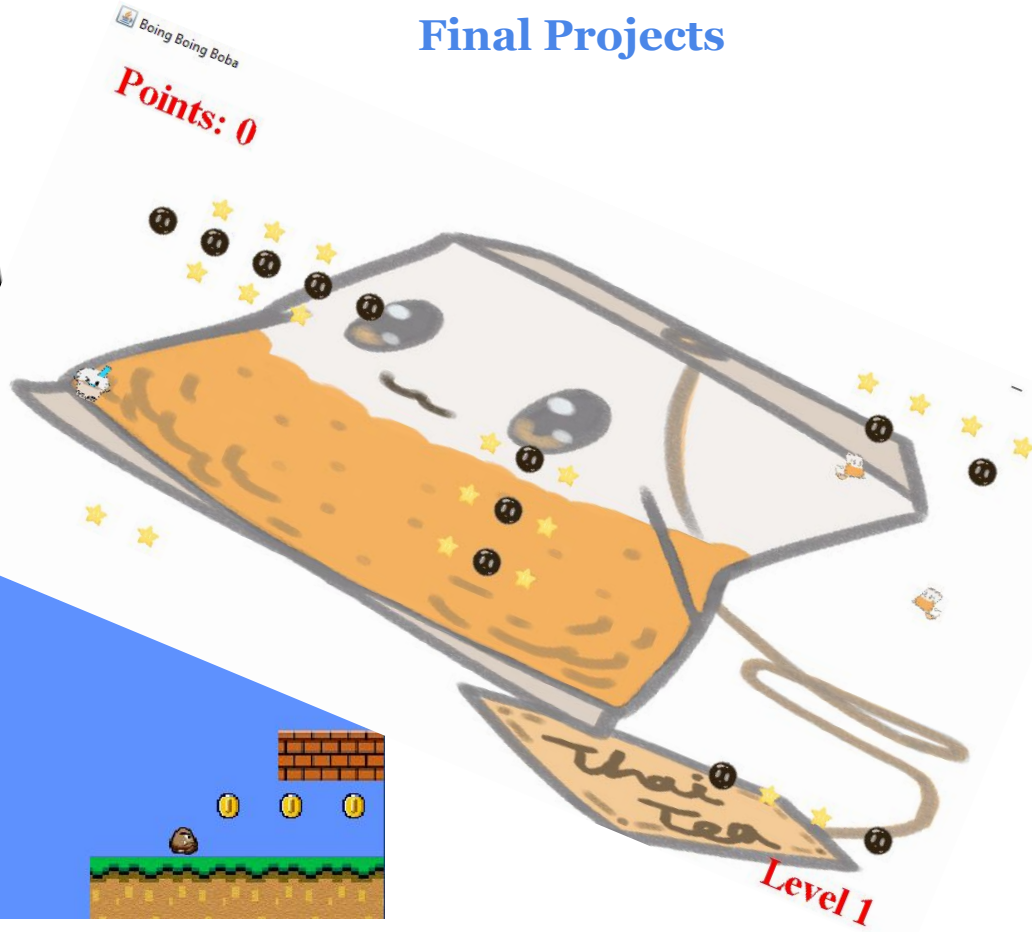


Computer Programming

Final Projects



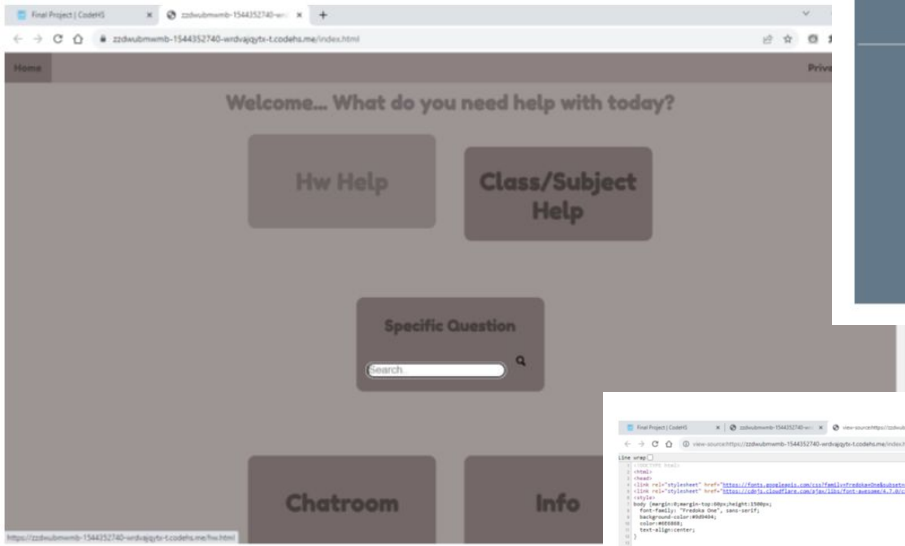


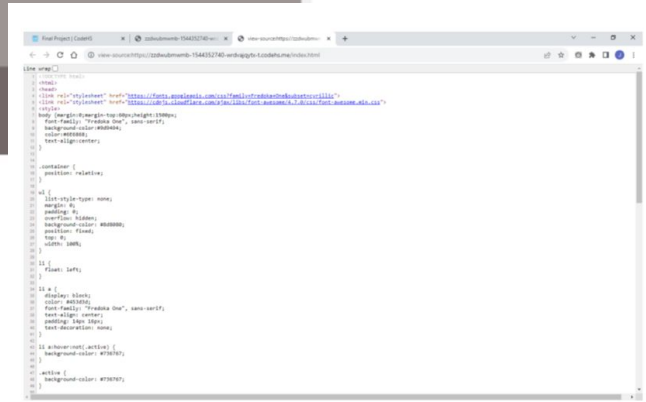


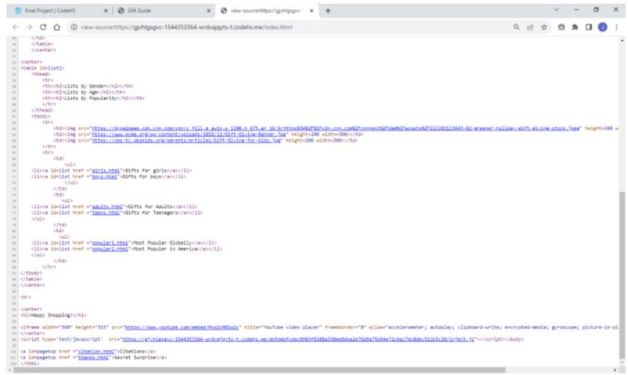
Web Design

Final Projects





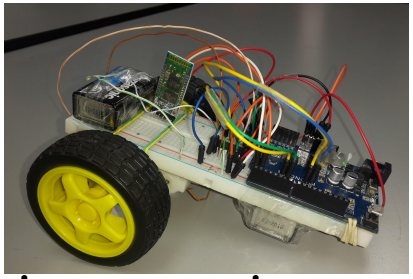




Robotics & Foundations of Electrical Engineering

Prereq: Comp. Science

- Full year course
- Language: C
- This course will allow students to program, wire and build their own Arduinos
- Students will create robots capable of taking input, sensing light, navigating a maze and more!
- What's next: APCSA



Earn college credit!

APCSP

AP Computer Science Principles

Prereq: Web Design OR Comp. Science

- Language: JavaScript
- This course covers programming and app design as well as topics such as binary code, networks and the Internet
- AP Exam & Portfolio

APCSA

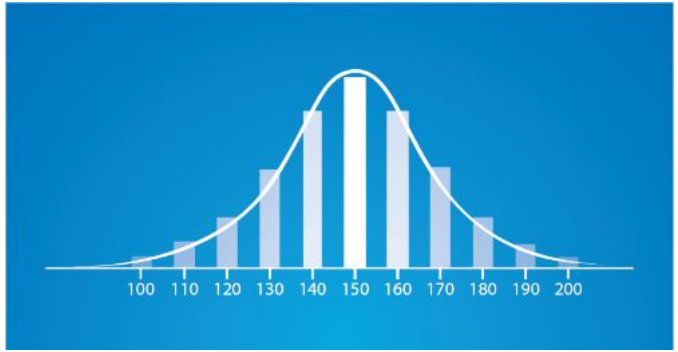
AP Computer Science A

Prereq: APCSP OR Robotics

- Language: Java
- This is an advanced programming course that requires students to create their own programs using high level logical structures
- AP Exam

AP Statistics

Learn about the major concepts and tools used for collecting, analyzing, and drawing conclusions from data. You'll explore statistics through discussion and activities, and you'll design surveys and experiments.



Skills You'll Learn

- ✓ Selecting methods for collecting or analyzing data
- ✓ Describing patterns, trends, associations, and relationships in data
- ✓ Using probability and simulation to describe probability distributions and define uncertainty in statistical inference
- ✓ Using statistical reasoning to draw appropriate conclusions and justify claims

Clubs

Faculty Advisor:
Mr. Ellis

Meeting Day/Room
Fridays at 2:30 in room H314

Academic Challenge Team

This club's mission statement is "To support and advance academic achievement at EHS. To demonstrate the concept and 'It's cool to be smart.'"

Participation in WACKO (Westchester Academic Challenge Knowledge Organization), the History Bowl, and the Questions Unlimited tournaments.

Clubs

Faculty Advisor:
Ms. Barbara

Once a month. Dates on Google Classroom

Google Classroom code :
egh67jd5

New York State Math Honor Society

The purpose of the Eastchester chapter of the NYS Mathematics Honor Society is to enhance knowledge and understanding of mathematics, promote mathematical leadership and encourage students to pursue the mathematics field of study.

To be inducted into the society, students must tutor at least three times per month and participate in our activities which so far include Pi Day and Geometry Supply Drive

Clubs

Faculty Advisor:
Mr. Suriel

Once a month. Dates on Google Classroom

Google Classroom code : ccgv3uon

Computer Science Honor Society

- Completed Intro to Computer Science/Computer Programming.
- Must have a 80% CS average and an 80% overall average. These classes below will be calculated for your CS average
  - Intro to computer Science
  - APCSP
  - APCSA
  - Robotics
  - Data Structures
  - Web Design
- By end of May, must have 10 sessions (5 hours) of service CS related completed.

Clubs

Faculty Advisor:
Mr. Suriel

Twice a month. Dates on Google Classroom

Google Classroom code :
a3lkiklo

Robotics Club

- **Design and build:** Students work collaboratively to design and construct robots using provided kits or a variety of tools.
- **Program:** Members learn to program robots to perform tasks, which can involve languages like Python or Java.
- **Compete:** Participate in competitions, where their robots are tested against challenges and other teams.
- **Learn and develop skills:** Participants gain hands-on experience in STEM, problem-solving, teamwork, and engineering.