

Langley High School AP Computer Science A

Syllabus 2025-26

General Course Information	
Teacher names and emails	Marisa London: mrlondon@fcps.edu
After School Help	Marisa London will be available after school until 3:30pm. Students may also receive assistance during Saxon Time; students should send a request to meet their teacher during this time. Please arrange with me if you need to meet at another time.
Course Description	<p>In this college-level course, students will design software to solve problems using the Java programming language. Topics include data types, object-oriented design and programming, search and sort algorithms, and data structures, which correspond to the syllabus of the College Board's AP Computer Science program. The course will culminate in an AP exam on May 15, 2026.</p> <p>The class is taught with a flipped classroom model. Students will watch a video for homework before class so that we can use our time together to practice and receive feedback. Class time will be devoted to programming and discussion. Students will be assessed with a midquarter test, end of quarter test, labs and a mock AP final exam. Advance notice will be given for assessments and lab projects.</p>
Course Outline	Unit 1: Variables and operations Unit 2: Methods Unit 3: Control Structures Unit 4: Loops Unit 5: Intro to Object-Oriented Programming Unit 6: Strings Unit 7: Arrays Unit 8: ArrayLists Unit 9: 2-dimensional Arrays Unit 10: Searching, Sorting and Recursion Unit 11: File Reading
Course Materials	<p>Textbook: CSAwesome AP CSA Java Course by Runstone Accessible at: https://runestone.academy/ns/books/published/csawesome2/csawesomeme2.html</p> <p>Course materials such as assignments, notes, due dates, and other timely information are posted on Schoology.</p>

Course Grading Information

How Quarter Grades Are Calculated	This class will use assignments in two categories.			
	Category	Definition	Weight	Examples of category assignments
	Summative (Product)	These are assessments that measure mastery of standards. Assignments in this category are eligible for reassessment.	70%	Midquarter Test and End-of-quarter Test
	Formative (Process)	These are assignments that provide students with feedback on their learning or allow students to practice skills. They allow students to understand areas for improvement while learning is in progress prior to a summative assessment.	20%	Quizzes and Labs
	Homework (Practice)	These are assignments that help students practice content and skills.	10%	Videos and problem sets

Traditional Gradebook or Rolling Gradebook	<p><i>Language for Quarterly Gradebook:</i></p> <p>This class uses a quarterly gradebook. Students will receive a quarter grade based on performance in the individual quarter and start over at the beginning of each quarter. Final grades are determined by an average of quarter grades and a final exam.</p> <p>Quarter 1 - 25% Quarter 2 - 25% Quarter 3 - 25% Quarter 4 - 15% <u>Mock AP Final Exam - 10%</u> Total - 100%</p>
Homework Policy	<p>Before most classes, students are assigned to watch a video for homework. This video will cover the basic concepts that students will practice in class. Students who watch the video after class will not be able to practice effectively during class time, thus no credit will be awarded after the deadline for video homework assignments.</p> <p><u>FCPS Guidance on Homework</u></p>
Retake Policy	<p>It is important that students are prepared for tests. For summative assessments, students will have one opportunity to reassess their learning up to 90%. Students who wish to reassess the quarter test will be asked to complete some different steps before reassessing. For this course, this requirement will be earning a score of at least 90% on a practice problem set before a deadline.</p>
Late Work Policy	<p>For lab projects, late work will be accepted within two weeks of the due date with a 10% penalty. After two weeks, no late work will be accepted. Homework videos must be watched before class to receive any credit.</p>
Make Up Work	<p>Students are responsible for arranging a makeup schedule with their teacher. For each day of class missed, one day of makeup will be given.</p>

Policy	<p>The final due date for makeup work is the last day of the quarter. The final due date for makeup work is the last day of the quarter.</p> <p>Per FCPS policy, students are fully responsible for completing any missed assignments when absent. Following any absence, including a prearranged absence, students should make arrangements with individual teachers for makeup work.</p>
Exams	<p>Final Assessments The class will participate in a culminating assessment before the AP exam. The final exam will count for 10% of the final grade. Final exams are NOT eligible for retakes.</p> <p>AP Exams The AP Computer Science A exam will be given on May 15, 2026. Here is the link to the College Board course overview: https://apcentral.collegeboard.org/courses/ap-computer-science-a Please reference the AP 2026 Exam Schedule for more information. Please do not schedule out of town events during the exam testing period.</p>

Langley Common Grading Policies

Langley SIS Comment Codes	<p>The comments below will be used in SIS across all Langley courses to help students and parents better understand the gradebook.</p> <ul style="list-style-type: none"> • Not Turned In: The student did not turn in the assignment. • Absent: The student was absent. Assignment must still be completed. • Excused: The student is excused from doing this assignment with no penalty. • Late: The student turned in the assignment late. • Past Deadline: The student did not attempt the assignment and the assignment can no longer be submitted. • Retake Score: This is the retake, reassessment or resubmission score.
Academic Integrity & Honor Code Information	<p>All students are expected to be familiar with and follow the FCPS Honor Code. Consequences of Honor Code are outlined in the Student Rights and Responsibilities Handbook.</p> <p>Students are encouraged to work together on in-class practice, to share ideas and to help each other. However, the ethical line is crossed into plagiarism when anyone turns in assigned work for credit which is not his/her own or was completed with the assistance of unapproved digital resources. Most of our labs will be with a partner. For partner work,</p>

	<p>students may not solicit or receive help from anyone but their partner and the teacher.</p> <p>For individual work, here are the rules for Collaboration:</p> <p>If students A and B both have incorrect or incomplete code they may collaborate together on algorithms. They may not write code together.</p> <p>If student A has incorrect code and student B has correct code, student B may not show, send, copy, or dictate their correct code to student A. Student A may not look at student B's correct code for any reason. Student B may look at student A's incorrect code to help debug or offer advice.</p> <p>If students A and B both have correct code, they may look at each other's code to compare solutions. Of course, after doing so, each student may not replace their own solution with the other student's.</p> <p>Solutions to work are sometimes available online or can be generated with the help of artificial intelligence models, so it is important that we agree on the purpose of practice. When programming, understanding someone else's code is not a valid substitute for writing it yourself. Generating an idea yourself is an entirely different learning experience. So, it is not acceptable to search solutions on the internet or generate them with the help of artificial intelligence, understand them, and then code them yourself. This defeats the purpose. If you get stuck, come see me for help!</p> <p>Plagiarism will not be tolerated: any student who plagiarizes on an assignment by either giving or receiving unauthorized aid will receive an F for the assignment and the incident will be referred to the administration for further action. All instances of plagiarism or attempts to gain an unfair advantage over classmates will be reported to the Langley Honor Council.</p>
Grading Scale and <u>Determining Quarter and Final Grades</u>	Courses at Langley follow the <u>Fairfax County Public Schools grading scale</u> and guidance for <u>determining quarter and final grades</u> .
FCPS Artificial Intelligence Policy and Guidance	<p>Artificial Intelligence (AI) is a type of technology that involves computer programming and data. There are many different types of AI tools. Some can use data to make predictions, decisions, and/or generate content.</p> <p>Students should follow <u>FCPS Honor Code</u> to maintain academic integrity. You should be able to demonstrate that you understand the information you turn in. You remain responsible for the content you</p>

	<p>submit. Students should not be using any AI tool to generate code for assignment projects. All work submitted must solely be the work of the student or student's partner.</p>
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