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Office Hours: Friday Refuel
Rm: C105

AP CSP
FALL 2024/SPRING 2025

I. **Course Description:** AP Computer Science Principles is the newest AP® course from the College Board. This course introduces students to the foundational concepts of computer science and explores the impact computing and technology have on our society.With a unique focus on creative problem solving and real-world applications, the CodeHS AP Computer Science Principles course gives students the opportunity to explore several important topics of computing using their own ideas and creativity, use the power of computing to create artifacts of personal value, and develop an interest in computer science that will foster further endeavors in the field.

II. **Course Objectives:** Students will:
   A. understand the core principles of computing, a field which has and continues to change the world
   B. develop computational artifacts to solve problems, communicate ideas, and express their own creativity
   C. collaborate with others to solve problems and develop computational artifacts
   D. explain the impact computing has on society, economy, and culture
   E. analyze existing artifacts, identify and correct errors, and explain how the artifact functions
   F. explain how data, information, or knowledge is represented for computational use
   G. explain how abstractions are used in computation and modeling
   H. be informed and responsible users of technology

III. **Classroom Rules and Consequences:**
   (1) Treat every person, their space, and their things respectfully.
   (2) Be in your seat, with your needed class materials, before the bell.
   (3) Follow directions and stay on task.
   (4) Pay attention during lectures and class discussion with screens OFF.
   (5) Follow all school rules.

IV. **Accommodations:** Requests for accommodations for this course or any school event are welcomed from students and parents.

V. **Turnitin Notice:** The majority of writing assignments in this course will be submitted to Turnitin via the Schoology learning platform. The primary focus of this software is to help students become better writers and scholars. Turnitin generates a report on the originality of student writing by comparing it with a database of periodicals, books, online content, student papers, and other published work. This program will help students discern when they are using sources fairly, citing properly, and paraphrasing effectively - skills essential to all academic work. Students will have the opportunity to review their Turnitin originality report and will have the opportunity to make revisions before submitting their work for grading. Once their work is submitted, teachers have the opportunity to view the student's originality report and grade accordingly.

VI. **Grading Policy:** Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The grading scale is as follows: A (90-100%), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only. <u>The final exam counts for 20% of the final grade.</u>

VII. **Cell Phones:** Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time. Phones and earbuds/headphones will be put away in a location designated by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in a disciplinary referral to the office.

VIII. **Make-Up Work Policy:** If you miss a class, test, or assignment, it is your responsibility to see what you have missed (weekly assignments will be posted on schoology). All work missed on the day(s) of the excused absence(s) must be made up within three school days after returning to school. It is your responsibility to turn this work in to me by the third day. If you do not turn in the work within 3 days then it will become a zero. If you missed a test or quiz, you must communicate this with me ahead of time. We will schedule a time together to make-up the test or quiz.

IX. **Course Materials:** Access to a computer and high-speed internet is required. There is also an online textbook available for many modules and topics which can be accessed through the lesson plans.

X. **Embedded numeracy and literacy:** This course will require the application of a variety of mathematical concepts and skills. This includes basic algebra and working with the

binary and hexadecimal number systems. This course will require the application of a variety of technical writing concepts and skills.

XI.   **CTSO Integration:** Consider joining TSA.

XII.   **Use of AI:** Students are prohibited from using AI or any AI-generated content to complete assignments, exams, projects, or any other form of academic work unless expressly permitted by the instructor. Use of AI not authorized will result in a zero.

XIII.   **Tentative Schedule:[1]**

WEEK 1	**Introduction to Computer Science Principles**
WEEK 2	**Introduction to Programming**
WEEK 3	**Pair Programming**
WEEK 4	**Programming with Python**
WEEK 5	**Python Control Structures**
WEEK 6	**Functions and Parameters**
WEEK 7	**Practice Performance Task & Basic Data Structures**
WEEK 8	**Create Performance Task**
WEEK 9	**Create Performance Task (Submitted to the College Board)**
WEEK 10	**Abstraction**
WEEK 11	**Encryption**
WEEK 12	**Project Impacts of Computing**
WEEK 13	**The Internet**
WEEK 14	**Cybersecurity**
WEEK 15	**Cyber Ethics**
WEEK 16	**Data & Project: Present a Data-Driven Insight**
WEEK 17	**Digital Information**
WEEK 18	**Exam Review (Advanced Placement Exam will be in MAY!)**

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[1] * The syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions, or substitutions. For any necessary changes, adequate notice will be provided to the students

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Dear Parent/Guardian,

This is my third year at James Clemens High School and I am committed to making this a successful and enjoyable class. I feel privileged to have your JCHS student in my class and hope that you will contact me should you have any concerns about the progress of your JCHS student. A complete syllabus for this course is located on Schoology and on the JCHS website for your review. Below you will find the TLDR highlights.

★ Check Schoology for course materials and Powerschool for grades.
★ Per a new district policy, students will not be allowed access to the cell phones during instructional time.
★ The AP exam is Thursday, May 15, 2025.

With your JCHS student, please read the course syllabus, then sign and date this signature page. Please provide a current email address and phone number at which I can contact you should the need arise. I look forward to a great semester!

Thank you,
Ms. Straub

My child and I have read and discussed the classroom syllabus and agree to follow all policies. Please fill out and return this page only to Ms. Straub by **MONDAY AUGUST, 5, 2024**.

Student Name (Print) _____

Student Signature _____

Parent/Guardian Name (Print) _____

Parent/Guardian Signature _____

Email Address(es) _____

_____

Phone number(s) _____   _____

Please provide me with any important information about your child that I will need to know: