

# AP<sup>®</sup> Computer Science Principles

Syllabus  
2022 – 2023

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Conference: 3<sup>rd</sup> period

SUPPLIES	Required <ul style="list-style-type: none"><li>• Pen or pencil</li></ul>
COURSE DESCRIPTION	<p>This innovative and exciting AP<sup>®</sup> course is an introduction to the foundation of modern computing. The course covers a broad range of foundational topics such as the Internet, digital data, programming and algorithms, big data, digital privacy and security, and societal impacts of computing. We will be using the Code.org Computer Science Principles curriculum and you can learn more about the curriculum at <a href="https://code.org/educate/csp">https://code.org/educate/csp</a>.</p> <p>The AP<sup>®</sup> CS Principles College Board Assessment consists of two parts: performance tasks and the end-of-course AP<sup>®</sup> Exam. Both measure student achievement of the course learning objectives. Every student in AP<sup>®</sup> CS Principles is expected to take the end-of-course AP<sup>®</sup> exam and submit the two performance tasks.</p> <p>AP<sup>®</sup> Course and Exam Description: <a href="https://apcentral.collegeboard.org/pdf/ap-computer-science-principles-course-and-exam-description.pdf">https://apcentral.collegeboard.org/pdf/ap-computer-science-principles-course-and-exam-description.pdf</a></p> <p>The AP<sup>®</sup> CS Principles performance tasks is due Monday, May 1, 2023 at 10:59 pm. The AP<sup>®</sup> CS Principles exam is scheduled for Monday, May 8, 2023 at 12 pm.</p>
ABSENCES	<p>Absences should be kept to a minimum. Students are responsible for making sure all missed work is completed.</p> <p>Students are expected to get notes and assignments from OneNote and Canvas.</p> <p>If a student is absent the day before an exam, they MUST take the exam on exam day.</p> <p>Refer to the student handbook for more policies concerning absences.</p>
TUTORIALS	<p>Wednesday 2:40 – 3:10 pm One additional afternoon Most mornings 6:30 – 7:00 am</p> <p>A weekly schedule of tutorial times will be posted in Canvas.</p> <p>If you fall behind, it is your responsibility to get caught up.</p>
CLASSROOM EXPECTATIONS	<ul style="list-style-type: none"><li>• Come to class prepared and ready to work each day.</li><li>• Be respectful and courteous to others.</li><li>• Obey all campus and district codes of conduct.</li><li>• Obey the honor code. No cheating.</li></ul>

- CLASSROOM POLICIES
- Keep the classroom clean.
  - Students may not consume any food or drink, other than water, while in class.
  - Students may not use a cell phone or any electronic entertainment devices for any reason while in class unless permission has been given.
  - Students must be in dress code and wearing their ID before they enter the room.

- TOPICS COVERED
- First Semester
- Digital Information
  - The Internet
  - Intro to App Design
  - Variables, Conditionals, and Functions
  - Lists, Loops, and Traversals

- Second Semester
- Algorithms
  - Parameters, Return, and Libraries
  - Create Performance Task
  - Data
  - Cybersecurity and Global Impacts
  - AP® Exam

- ASSIGNMENTS AND ASSESSMENTS
- First Term
- Unit 1
    - Code.org Lessons 1 – 13
    - Khan Academy Digital Information: Quiz 1 - 3
    - Code.org Unit 1 Project
    - Code.org Unit 1 Assessment
  - Unit 2
    - Code.org Lessons 1 – 8
    - Khan Academy The Internet: Quiz 1 - 3
    - Code.org Unit 2 Project
    - Code.org Unit 2 Assessment
  - Unit 3
    - Code.org Lessons 1 – 10
    - Code.org Unit 3 Project
    - Code.org Unit 3 Assessment

- Second Term
- Unit 4
    - Code.org Lessons 1 – 14
    - Khan Academy Programming: Quiz 1 - 2
    - Code.org Unit 4 Project
    - Code.org Unit 4 Assessment
  - Unit 5
    - Code.org Lessons 1 – 17
    - Khan Academy Programming: Quiz 3
    - Code.org Unit 5 Project
    - Code.org Unit 5 Assessment

### Third Term

- Unit 6
  - Code.org Lessons 1 – 5
  - Khan Academy Algorithms: Quiz 1 – 2
  - Code.org Unit 6 Assessment
- Unit 7
  - Code.org Lessons 1 – 10
  - Code.org Unit 7 Project
  - Code.org Unit 7 Assessment
- Unit 8
  - Practice Create PT
  - Code.org Lessons 1 – 2
  - Create Performance Task

### Fourth Term

- Unit 9
  - Code.org Lessons 1 – 8
  - Code.org Unit 9 Project
  - Code.org Unit 9 Assessment
- Unit 10
  - Code.org Lessons 1 – 13
  - Khan Academy Online Data Security: Quiz 1 - 3
  - Code.org Unit 10 Project
  - Code.org Unit 10 Assessment
- Review
  - Mock AP® Exam
  - AP® Exam Review