ESCONDIDO UNION HIGH SCHOOL DISTRICT

AP Computer Science A

Approved by the Board of Education on August 2, 2022
Mission and Vision

We relentlessly pursue, with optimism, equitable support for all students to navigate a changing world by providing rigorous and relevant learning experiences that strengthen their capacity as

- Open-minded and invested collaborators;
- Effective and thoughtful communicators;
- Resourceful and creative problem solvers;
- Curious and analytical critical thinkers;
- Informed and compassionate community members.

EUHSD curriculum identifies what students should know and be able to do by grade level in a comprehensive, standards-based course of study. Curriculum may be updated, as needed, based on student academic achievement data, research and best practices, and input from stakeholders. The EUHSD curriculum contains the following information:

- **Course Description** – provides a description of the overarching content and goals of the course and is used in the Course Catalog.
- **Course Information** – provides information specific to length of course, course number, transcript abbreviation, credits earned.
- **Course Requirements** – provides information specific to credits, prerequisites, UC/CSU requirements, and grade level of the course.
- **Course Material(s)** – Instructional materials used in course.
- **Additional Information** – provides links to College Board AP Central for specific Advanced Placement course information.

Escondido Union High School District prohibits discrimination, harassment, intimidation, and bullying based on actual or perceived ancestry, age color, disability, gender, gender identity, gender expression, nationality, race or ethnicity, religion, sex, sexual orientation, pregnancy, marital or parental status or association with a person or group with one or more of these actual or perceived characteristics.

Dr. Courtney Goode, Assistant Superintendent of Human Resources, Equity and Title IX Compliance Officer
302 N. Midway Drive, Escondido, CA 92027
Office: (760) 291-3281, Email: cgoode@euhsd.org
### Course Description

*AP Computer Science A* introduces students to computer science through programming. Fundamental topics in this course include the design of solutions to problems, the use of data structures to organize large sets of data, the development and implementation of algorithms to process data and discover new information, the analysis of potential solutions, and the ethical and social implications of computing systems. The course emphasizes object-oriented programming and design using the Java programming language.

### Course Information

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Number</th>
<th>Transcript Abbreviation</th>
<th>Credits</th>
<th>Weighted</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>0891</td>
<td>AP COMP SCI A A</td>
<td>5</td>
<td>Yes</td>
</tr>
<tr>
<td>B</td>
<td>0893</td>
<td>AP COMP SCI A B</td>
<td>5</td>
<td>Yes</td>
</tr>
</tbody>
</table>

### Course Requirements

- **Length of Course:** Yearlong
- **Course Learning Environment:** Classroom Based
- **Type of Grade:** Letter grade
- **Grade Level:** 10-12
- **Course Repeatable:** No
- **Maximum Credits, if Repeatable:** N/A
- **Course Type:** Advanced Placement
- **CTE/Designated College Prep:** Yes
- **CTE Course Level:** Capstone
- **Meets EUHSD Graduation Requirement:** Designated College Prep/CTE or Elective Credit
- **Meets UC/CSU Requirement:** C: Mathematics
- **UC Honors Designation:** Yes
- **Prerequisite(s):** Math 1

### Course Material(s)

- Teachers will utilize a variety of instructional resources designed to assist students in meeting the requirements set forth by the College Board in preparation for the Advanced Placement Exam. In addition, Advanced Placement teachers are required to submit their Course Syllabus in accordance with College Board requirements and receive individual teacher approval to utilize a variety of instructional strategies and course materials in order to meet the requirements set forth in the Advanced Placement Course Guides.

### Additional Information

- For most current course curriculum refer to College Board AP Central for [AP Computer Science A Course and Exam Description](https://apcentral.collegeboard.org/).
- For additional information for Advanced Placement courses go to [https://apcentral.collegeboard.org/](https://apcentral.collegeboard.org/).