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Syllabus 2017-18 School Year

AP Computer Science Principles - A Project Based AP Course

The purpose of this course is to introduce students to the central ideas of computer science. When students successfully complete this course they have a firm grasp of the ideas and practices of computational thinking and how computing changes the world. Student develop innovative computational artifacts through creativity and engineering to bring ideas to life.

A course description and all exam requirements are in the link below

<https://apcentral.collegeboard.org/pdf/ap-computer-science-principles-course-and-exam-description.pdf>

The AP CSP course is organized around seven big ideas, which are essential to studying computer science.

- Big Idea 1: Creativity. Computing is a creative activity. ...
- Big Idea 2: Abstraction. ...
- Big Idea 3: Data and Information. ...
- Big Idea 4: Algorithms. ...
- Big Idea 5: Programming. ...
- Big Idea 6: The Internet. ...
- Big Idea 7: Global Impact.

The AP Computer Science Principles course has three assessments consisting of two performance tasks and an end-of-course AP Exam. All of these assessments are summative and the scoring results from each will be used to calculate a final AP score using the 1–5 scale. Each assessment will count for a certain percentage of the total AP score, as shown in the table below.

Assessment	Timing	Percentage of Total AP Score
Explore Performance Task	8 hours	16%
Create Performance Task	12 hours	24%
End-of-Course Exam	2 hours	60%

The Explore Project which is based on a tech innovation.

The AP rubric:

<https://apcentral.collegeboard.org/pdf/2018-explore-performance-tasks-sg.pdf?course=ap-computer-science-principles>

The Create Project is a project that is an original coding project created by the student.

The AP rubric:

<https://apcentral.collegeboard.org/pdf/2018-create-performance-tasks-sg.pdf?course=ap-computer-science-principles>

The College Board also has a very firm policy on Plagiarism that will be followed in the class as well.

AP Computer Science Principles Policy on Plagiarism

A student who fails to acknowledge (i.e., through citation, through attribution, by reference, and/or through acknowledgment in a bibliographic entry) the source or author of any and all information or evidence taken from the work of someone else will receive a score of 0 on that performance task.

To the best of their ability, teachers will ensure that students understand ethical use and acknowledgment of the ideas and work of others, as well as the consequences of plagiarism. The student's individual voice should be clearly evident, and the ideas of others must be acknowledged, attributed, and/or cited.

Since this course has 2 major projects for the AP exam that will be done is 2nd semester the two semesters will have a different breakdown for grades.

Fall Semester

50% Assignments, Labs, Projects

10% Computer Science Principles Reviews

20% Interactive notebook quizzes and CSP Review quizzes

20% Midterm and Final

Spring Semester

10% Explore Project

20% Create Project

20% Assignments and Labs and Final Exam Project

10% Computer Science Principles Reviews

20% Interactive notebook quizzes and CSP Review quizzes

20% Midterm