AP Computer Science Principles (AP CSP)

<u>Course Overview</u>: AP CSP is a brand new AP course that offers a gentle introduction to Computer Science: the study of how computers solve problems. This is a true introductory course – **you don't have to know anything about Computer Science in order to take this class**. In fact, the less you know, the better. The goal of this course is to give you a firm background in several aspects of computer science and show you how computing can be a tool to help you solve problems in whatever your other interests are.

This is **not a Math class**. This is **not a Programming-Only class**. This is **not a Sit-and-Listen class**. This is a *make something* class. This is a *debate something* class. This is a *present something* class.



This is An AP Course. Here's What That Means

<u>Grades & College Credit</u>: AP stands for 'Advanced Placement' – it means that you can earn *college credit* for taking this class and passing an exam at the end. Most colleges accept this class as a General Education requirement, which means that even if you decide to go to college for something completely different (like Music or Biology or Architecture or Creative Writing), this class still counts towards helping you finish faster. This class is also *weighted*, which means that it can really help your GPA. In most classes, a B is worth a 3.0 – but, in this class, a B is worth a 4.0, which is the same as an A in most other classes.

<u>What to Expect</u>: AP doesn't always mean *harder* or *faster* or *more work*, and that's especially true for this course. However, we do have high expectations in how you behave as a student and how responsible you are for your own learning. You are expected to do each of the following for the *entire* school year:

Manage your time so you can finish	Read the board, check your email,	Contribute positively when
assignments and be prepared for class	and communicate with your peers	working in groups or with a
discussions	so you are prepared for class	partner
Speak up when you don't understand	Bo able to work independently	Prepare for tests and quizzes
something, even if that means coming to	be able to work independently	by reviewing and studying
office hours	without getting distracted	your notes and assignments
Keep your Promises	Be In Class	Complete Your Work

The AP Exam: In order to earn your college credit, you need to successfully complete three tasks. Plenty of time will be given in class to work on all three of these.

The Create Performance Task	The Explore Performance Task	Multiple-Choice Exam	
Using any of the programming languages described	You will select and investigate a	This is a 74 question Multiple	
in this class (or even languages not included in this	computing innovation that has had (or	Choice exam on the Big Ideas of	
class), develop a program on a topic that interests	could have) a significant impact on	this course: Creativity,	
you or that solves a particular problem. You are	society, the economy, or culture. In	Abstraction, Data, Algorithms,	
encouraged to collaborate with a partner in	investigating this innovation, you should	Programming, The Internet, and	
developing and writing your program, but you must	report on both the positive and negative	Global Impact.	
write at least one significant portion of the program	effects of this innovation and any data-		
on your own. Your program must implement at least	related concern, such as data storage,		
one algorithmic process related to your topic or	data privacy, or data security. This task		
problem, and at least one abstraction that helps you	is most similar to a research report on a		
manage the complexity of your program.	computing topic of your own interest.		
This task is worth 24% of your AP Score.	This task is worth 16% of your AP Score.	The exam is worth 60% of your AP	
It is due April 27th	It is due April 27 th	Score. The exam is on May 11 th	
If you are taking this course, you are expected to take the AP Exam			

If you are taking this course, you are expected to take the AP Exam. If you already know you're not planning on taking the Exam, we should talk *now*.

<u>Grades</u>

Programs, Projects, & Research Papers: **35%** | Quizzes & Tests: **25%** | Everything Else: **30%** Taking the AP Exam: **10%**