James Logan High School
Course Syllabus - Computer Science Principles

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Class Location: 82

Course Description:

Using Python® as a primary tool and incorporating multiple platforms and languages for computation, this course aims to develop computational thinking, generate excitement about career paths that utilize computing, and introduce professional tools that foster creativity and collaboration. Computer Science Principles helps students develop programming expertise and explore the workings of the Internet. Projects and problems include app development, visualization of data, cybersecurity, and simulation.

Course Competencies/Learning Objectives:

- Unit 1: Algorithms, Graphics, and Graphical User Interfaces (68 days)
- Unit 2: The Internet (30 days)
- Unit 3: Raining Reigning Data (30 days)
- Unit 4: Intelligent Behavior (28 days)

Course Material:

- PLTW Curriculum (Project Lead the Way)
- Code.org
- Repl.it

Grading System:

Labs, and Assignments	-	45%
Tests, and Quizzes	-	20%
Projects	-	35%

Grading Scale:

A= 90% - 100%   B= 80% - 89%

C= 70% - 79%   D= 55% - 69%

F= 54% and lower

Labs, Assignments, and Homework:

Labs, assignments and homework are graded on how complete the work is, and the effort shown in the work. Due dates for Labs, assignments and homework are posted in Canvas.

Late Work:

Work turned in late will receive half credit. Work is given a 3 day buffer period to finish. For example if an assignment is handed out on monday the due date for it will be Wednesday at midnight.

Tests, and Quizzes:

Quizzes and tests are taken in Google Form format. Quizzes and tests are not open book unless stated otherwise. Quizzes and tests are taken individually and not in groups or with partners.

Seating Chart:

Students will have assigned seating. Students who are not in their assigned seats when the bell rings will be counted tardy/absent. Students are to sit in their assigned seat unless instructed to do otherwise. Students are to be in their assigned seats until the bell rings at the end of class.

Eating and Drinking:

No food or drinks are allowed at the computer desks at any time.

Cell Phone Policy:

I expect that cell phones and other electronic devices will be put away and not sitting out in view. Texting or other cell phone use in class will result in a verbal warning and then a confiscation.

Class Dismissal:

The last 3-5 minutes of class will be dedicated to cleaning up workstations, this includes putting the mouse and keyboard back how they were found and picking up any trash that was left during the class period. Students are allowed to leave when the bell rings, but must remain in their seats all the way up until the bell rings. This means no lining up at the door the last few minutes of class.

Plagiarism, Cheating, and Academic Integrity:

Plagiarism is the practice of copying words, sentences, images, or ideas for use in written or oral assessments without giving proper credit to the source. Cheating is defined as the giving or receiving of illegal help on anything that has been determined by the teacher to be an individual effort. Both are considered serious offenses and will significantly affect your course grade.

Discipline Policy:

1st Violation: Teacher Verbal Warning

2nd Violation: Call Home

3rd Violation: Referral to School administration, Parent meeting with staff, and Student/Parent behavior contract

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Missed Classes:

Students are responsible for obtaining material distributed in class that are missed. This can be done through contacting a classmate who was present or by contacting the instructor during his office hours.

Certificate of Completion:

Students who receive a C or higher in the class at the end of the school year will receive a Certificate of Completion by the Mission Valley ROP. Students who earn this certificate may also earn college articulated credit. We will talk more about this later near the end of the year.

Workplace Basic Skills and Behaviors:

- Apply skills learned in class
- Analyze information and make decisions
- Communicate verbally and in writing
- Work independently and as a team member in a diverse workplace
- Work reliably, responsibly, and ethically

Career Technical Skills:

- Demonstrate occupational competencies
- Use appropriate technology
- Understand and practice occupational safety standards
- Demonstrate an awareness of how a business or industry functions

Job Employment Skills:

- Develop a plan to achieve career goals
- Use effective job search strategies
- Demonstrate an awareness of the importance of lifelong learning

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Need for Assistance:

If you are having trouble with this class, come to me immediately and I can work with you. If you wait till the end of the marking period, it will be TOO LATE. I will be available to help you understand so you can be successful in this class.