

This course is a college level introduction to computer science concepts. Included in this course are: hardware concepts, data communication, data representation/abstraction, recursion, software engineering, sorting/searching, and object-oriented programming. We will be meeting every school day the period is scheduled unless otherwise announced. This course is divided into nine units over two semesters, including one unit after the AP Exams. In order to take the AP Exams, students will need to create and submit to the College Board one or more projects by a particular deadline, to be announced on the class website along with other assignments. All students will register with the College Board: Certain assignments will be submitted to their website, even if the student does not plan on taking the exam. Class work will include associated topics, current events in the field, written assignments, coding assignments, research, tests, quizzes, and journals. Various programming languages may be introduced during the semester, though the student may use the language of their choice for the AP portfolio.

All forms are available for download either from Schoology (<http://lms.lausd.net>) or from my personal website (<https://www.burdo.net/index.php/ap-csp>). Students and parents are responsible for getting to know these rules and guides. If anyone has a question, please contact me. NOTE: This is a work intensive course and will require a substantial amount of practice and work time outside of class on both paper and computer. Additionally, some assignments will require work on one or more third party websites, to be announced, which requires an individual email address (please use the district supplied email address when registering). Material submitted on third party website(s) will be subject to the terms and conditions of the respective website(s).

I urge you and your parents/guardians to read the *Class Rules* which contains information about general expectations in my classes. Specifically, for this course, please note the following:

- Tests will usually be announced several days in advance; however, a pop quiz may occur at any time. Tests may be made up like any other work; a pop quiz cannot be made up, but might be excused, depending on the reason for missing the quiz.
- Late work is accepted but will incur a penalty unless the work is late due to an excused absence.
 - Absences must be cleared within three days of return to school to have the chance at make-up/late work credit. See me in class when the absence is cleared.
- Class time may include some ‘traditional’ class lecture, in addition to computer time. Some items/topics will be expected to be covered outside of class.
- Rules for computer usage as listed in Class Rules and the RAUP are enforced.
- Assisting another student with code is usually permissible, but it should not be copied. Tests and written work is on an individual basis. Group projects will clearly be announced as such.
- Cheating is not tolerated and may result in failure on the assignment or in the course if additional violations are found.
- The software used for this course is available as freeware or under open source licenses. Installation of any program on a computer may cause issues. Neither myself, nor the school can be responsible for any problems encountered by installation of any of the recommended programs. Please see my personal website for a listing of the programs that will be used for the course. Coding assignments will often need to be done outside of class on both paper, and in an IDE, as it does help with completion of the assignments, understanding of the language, and the work flow.

On the reverse is a tentative syllabus for this year. The timing of any topic may be changed to meet the requirements of the course and the students ability to master the material. Work may be assigned over winter break to allow completion of the course prior to the AP exams. If you have questions at any point, you may leave a message for me at any of the following:

CONTACT INFO:

- Email: gab2349@lausd.net
- Websites:
 - lms.lausd.net
 - Panoramahs.org
 - www.burdo.net
- Main Office: 818.909.4500
- Voicemail/Text: 805.768.4229

Please note that this is a guide and may be modified at the instructor’s discretion.

<i>Unit</i>	<i>Topic</i>
0	Course Orientation / Surviving High School / Organization
1	The Internet
2	Digital Information
3	Intro to Programming
4	Big Data & Privacy
5	Building Apps
6	Performance Tasks
7	AP Exams
8	Concluding Projects

NOTE 1: Actual assignments will be announced in class and posted to Schoology.

NOTE 2: This class uses weighted grades:

<i>Item</i>	<i>Weight</i>
Homework	10%
Class Work	15%
Tests / Quizzes	60%
Final Exam (Semester)	15%
Total	100%



Course Recommendations:

- Email account (Please use the district supplied email when registering for all sites related to this class.)
- Home computer: though not required, will be helpful for many assignments. Linux, Windows, OSx
- Earbuds/headphones (for watching demo videos)
- Portable storage:
 - Flash Drive, - AND/OR -
- Cloud Storage such as: Google Drive (supplied w/ your district email), OneDrive, AmazonCloud, iCloud, etc.
- Office suite such as: LibreOffice (an open source project), MS Office, etc. (Documents in Apple Notes format are **not** acceptable. See class website for additional details.)
- We may be making use of various social media services, to be determined at a later date.