

AP Computer Science Principles Summer Assignment 2018-2019

Preface:

The advanced placement (AP) computer science principles class tackles the challenge by studying computer science principles to explore computing technology. This class is equivalent to your first semester university level computer science. When you enroll for the course, please consider the following recommendations.

You:

- Agree to complete this course and the culminating AP CS college board exam
- Have access to a computer and the internet at home

Important notes for you:

If the summer assignments are not completed and turned in to Google Classroom & Code.org before the due date (**8/15/18 - Wednesday**), you will **automatically get F** at the beginning of the school year.

Feel free to finish the assignments **early** if you have any travelling plan around the deadline.

Google Classroom/Code.org/Remind Enrollment

- (a) **Google Classroom** code: **ogyvoda**
- (b) **Code.org**: Click on the link: <http://studio.code.org/join/QDNBVC> class code: **QDNBVC**
- (c) **Remind App**: class code: **@6gecf7 (Text to 81010)**

Assignment Details:

1. **Assignment 1:** Code.org: [Accelerated Intro to CS Course \(20 hours\)](#)
lessons link: <https://studio.code.org/s/20-hour>
2. **Assignment 2:** Write a one-page summary and analysis of two (2) different emerging technologies.

Requirements:

- (a) You may choose **any two (2) emerging technologies** and write a one **(1) page summary** and analysis for each. Alternatively, you may research and find your own technologies.
- (b) Requirements for the emerging technologies:
 - a. The technology chosen must be invented within the last three years.
 - b. The analysis shall be about the function of the technology and the impact to the economy, culture, society, political, medical, etc.)
 - c. Use MLA formatting to cite the appropriate resources.
 - d. Submit the project via Google Classroom
 - e. Mrs. Weis email: awei@bishopamat.org
 - f. **See page 2** for more info about assignment 2.

(c) Choices of emerging technology:

- (a) License plate readers on street lights
- (b) Smart devices in the Home (e.g. thermostats, security systems, etc.)
- (c) Bio-devices worn on the body (e.g. pace-makers, heart-beat monitors, etc.)
- (d) Specialized drones for various industries (e.g. military, agriculture, NASA, real estate, etc.)
- (e) Green devices that improve air, water, food, or anything else.
- (f) Medical / Surgical devices
- (g) Transportation devices or vehicles
- (h) Entertainment devices (e.g. virtual reality, AI, etc.)

Notes: The emerging technology list above is an example of options you can choose. However, you may find your own emerging technologies by searching the Internet for the areas that interest you. Please note the technology requirements listed above. Email Mrs. Wei at awei@bisohpamat.org if you have questions about any of the assignments.