



Roosevelt High School Classroom Syllabus

2017 - 2018

Teacher Name: Howard Kam

Course Title: STEM 1 / IET CORE

Room: F103 **Phone:** 307-0504 **Email:** hkam@roosevelths.k12.hi.us

Course Description:

STEM level one, also known as Industrial Engineering Technology (IET) Core, is a year long class that will engage and guide you along a pathway of information technology. The class is introductory and will teach the fundamentals of information technology, coding, microcontrollers, and 3D drawing.

**This course will show as IET Core on your Report Card.*

Course Expectations:

By the end of this course, students will be able to:

- Explain the infrastructure of the Internet and computer networks.
- Code HTML and CSS web sites.
- Understand and code the Arduino microcontroller.
- Describe different STEM careers.
- Develop 3D models for printing.

Grading Policy:

The grades are weighted accordingly:

Category	Percentage of total grade
Readings & Discussion	30%
Quizzes	30%
Homework	30%
Final Exam	10%

Late Work:

No late work will be accepted.

Extra Credit System:

Students that participate in Robotics, Coding Club, or STEM Conference are eligible for extra credit.

Missed Work:

A student has the opportunity to make up missed work as long as both conditions are met.

1. A validated re-admit slip from the Administration office.
2. A new deadline is issued by Mr. Kam.

Classroom Management Plan:

For a classroom to function properly, there are three foundational rules that everyone must follow.

1. Respect the educational process
 - a. Everyone is responsible for their actions.
 - b. You are not allowed to disrupt the learning process of another.
 - c. You are required to attend all days of the academic calendar.
2. Nobody gets left behind.
 - a. When you are part of a group, or a team, you are required to actively participate since you will be also graded by your team members.
 - b. Your success is based in part on the company you keep.
3. Wasted time is on you.
 - a. While some projects are easy, there are projects that may take months to complete.
 - b. There not be additional opportunities to make up a grade since there are no extra credit assignments.

The classroom flow is akin to a college level classroom. When the bell rings, the class lecture will commence immediately. You will be responsible for keeping up with the assignments and missed lectures.

The following are prohibited:

- Sleeping.
- Playing video games during class.
- Circumventing software safeguards.
- Using a mobile device when a lecture is being given.

Reasonable allowances of devices:

Reasonable allowances are exceptions to the rules that should be used in moderation and may be revoked by the instructor at any time.

1. Mobile devices may be used to listen to music when the instructor is not lecturing.
2. You may eat your snacks in class on the common foods table in the back of the class.

Penalties for violating rules:

All Department of Education disciplinary procedures will be followed.

Materials:

You are not required to purchase anything for this class. All software required for grading will be available to you. Nevertheless, you may want to consider the suggested items below.

Suggested items:

The following items are NOT required. Buying or bringing your own devices DOES NOT affect your grade. You can still complete the course without making purchases. The purposes of suggested items will be to enhance your own learning.

1. Arduino Uno starter Kit (Amazon.com)
2. USB Flash Drive.
3. Your own laptop with an Internet hotspot. (No wifi will be provided to you)

Technology in the Classroom

This class is a highly computerized class. We will be using Google Chromebooks, and desktop workstations; moreover, we may be using a great deal of online cloud-based tools to work on your projects. The purpose of cloud-based tools is for you to complete assignments on any internet connected computer.

For Parents:

This class has been known to be rigorous, but forgiving. You can check your child's grades using Infinite Campus, an online system that does live reporting of your child's grades. In addition, you can email me if you would like to see any assignments or readings upcoming on Google Classroom, a website that organizes and disseminates information.