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COURSE DESCRIPTION

Engineering Design and Development (EDD) is the capstone course in the PLTW high school engineering program. It is an engineering research course in which students work in teams to research, design and develop an original solution to a valid open-ended technical problem by applying the engineering design process. At the end of the course, student teams must submit a final written report as well as report and defend their final solution to outside reviewer panel (trade show). In addition, students will complete smaller projects during first semester.

DONATION REQUEST

State law requires us to provide a public education free of charge. Subject to certain exceptions, the right to a free public education means we cannot require students or their families to purchase supplies. Santa Monica High School will provide all necessary supplies for your child to have a quality educational experience. Students enrolled in Santa Monica High School are not required to pay any fee, deposit, or other charge for participation in an educational activity offered by the school or the Santa Monica-Malibu Unified School District, except as authorized by law. Donations are sought and accepted for various activities and supplies, and are at times critical to the continued success of classes and activities, but donations are voluntary.

Due to limited funding for necessary materials/supplies we ask that parents/guardians make a donation to the PLTW Engineering Class to purchase materials for the replacement of our current FPGAs, and to update other class materials so that "PLTW kits" can be sent to each student for distance learning. We are requesting a donation of $100 per student, but any amount is greatly appreciated. These funds will make the 3rd year engineering class better for all students. You may send this donation by check made out to Santa Monica High School ASB and write " PLTW Digital Electronics" in the memo.

I thank you in advance for your willingness to help support the program.

EXPECTATION of STUDENTS
Students are expected to follow all classroom procedures as well as the school wide policies for behavior.

- **Synchronous expectations:**
    - Synchronous Instruction shall be defined as a student or a group of students engaged in learning at the same time using technology that allows the teacher and student to connect in real-time to deliver:
        - Timely actionable feedback to students.
        - Direct instruction to students through video conferencing.
        - Teacher guided peer-to-peer learning.
        - Whole or small-group instruction.
    - Students are expected to participate in class with both audio and video and complete all assigned synchronous work.
    - Student attire must be school appropriate
    - Student Backgrounds (virtual or real) must be school appropriate and not a distraction to the learning environment
- **Asynchronous expectations:**
    - Asynchronous Instruction shall be defined as:
        - Learning done on student's own time or schedule.
        - Students work independently.
        - Self-guided instructional modules.
        - Pre-recorded lessons.
        - Discussion, emails or chats that aren't happening in real time.
    - Students are expected to complete all assigned asynchronous work.
- **Late Work Policy:**
    - Students can submit work up to 5 school days without a late work penalty

- o For students with IEP/504, extended time is based on the assignment's due date per the IEP/504 plan for legal and compliance purposes.
- **Attendance:**
  - o Students are expected to attend all class periods and will be marked "absent" if not in attendance.
  - o If you are absent it is your responsibility to check google classroom and complete the work that you missed. You may get additional help for a missed class during flex time or office hours. The best way to get missed work is to download the work from Google Classroom. Work not turned in while you were absent will not be counted as late as long as it is turned in the day you return to school. If you are absent on the day of a test/quiz you <u>must</u> make-up the test or quiz on the day you return (after school or during lunch). If you are absent on the day of a lab or activity you must make up the lab during a teacher scheduled time.

CLASSROOM POLICIES
- Assignments (Asynchronous & Synchronous)
  - o Assignments will be assigned daily and will be submitted on Friday of each week
  - o I strongly suggest that you circle any problems that you get wrong in the homework and complete these problems again when studying for an assessment
- Labs (Asynchronous & Synchronous)
  - o Labs are an integral part of a chemistry class and will take part frequently.
  - o If a student is absent on the day of a lab then they can make up the lab on a designated day determined by the teacher and still receive full credit.
- Assessments (Synchronous)
  - o The dates of upcoming quizzes/tests will be found on the unit calendar posted in Google Classroom.
  - o **<u>If a student is absent on the day of a quiz/test, then they can make up the missed quiz/test on the day of their return.</u>**

ACADEMIC HONESTY

Samohi believes that personal integrity is basic to all solid achievement and that students will reach their full potential only by being honest with themselves and others. Samohi also believes that academic integrity is basic to the progress of the school community toward rich learning and the respect of outside communities. Samohi expects all students to respect the educational purposes underlying all school activities and also expects administration, faculty, and staff to provide an environment that encourages honesty. Students must know that their teachers will not ignore or condone academic dishonesty and that every such incident will be penalized. Faculty and staff members who witness or suspect an incident of academic honesty are expected to report it to the Advisor and/or Administrator. Consequences include, but is not limited to, a grade of zero on the compromised assignment, completion of a comparable assignment for no course credit, parent notification, RJ circle, academic probation, the loss of honor society eligibility, final grade of W or F in the course.

CONCEPT CATEGORIES
Students will be assessed for the following EDD Concepts listed below.

SEMESTER 1	SEMESTER 2
Personal Website/Blog **What's the Problem?** o Individual Research and Presentation of an innovative solution. **Capstone Project** o Research a Problem o Design a Solution	**Capstone Project** o Create a Prototype & Testing Plan o Evaluate & Reflect on the Design Process o Present the Design Process o Beyond EDD **Patent Research**

GRADING

Grades will be broken down into four grading categories:
60 % Assessments (Projects + Presentations)
40 % Assignments (Website/Blog + Homework)

Note: The above syllabus is only intended for distance learning. If and when we return to in person learning an additional syllabus will be sent out for updates.

Note: the instructor reserves the right to make additions, changes and deletions to the syllabus during the course of the year as appropriate for student learning.

Please keep the syllabus for your records and return THIS PAGE ONLY to Ms. Snyder

Santa Monica High School
PLTW EDD
2020-2021
Syllabus Contract

Student Name: _____ _____ Class Period: _____

                       Last   First

I have read and understand the 2020-2022 Course Syllabus   _____ (Initial)

I agree to abide by the SAMOHI Academic Honesty Policy   _____ (Initial

I understand that it is my responsibility to find out the work I've missed and turn it in no later than ONE day after I return from an absence.   _____ (Initial

I agree to participate safely and enthusiastically in all activities.   _____ (Initial

_____

Student Signature   Date

_____

Parent Signature   Date

By signing this paper, you verify that you have read, understood, and agreed to the policies set forth on the Syllabus. This includes your understanding of the expectations for students, classroom policies, and grading. You understand that you must follow all safety rules, class rules and policies.