

## PCM High School, Mr. West

Contact Info:  
Mr. West, Room 19  
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Website: [sites.google.com/pcmschools.org/stem/](https://sites.google.com/pcmschools.org/stem/)  
(OR go to [hs.pcmschools.org/](https://hs.pcmschools.org/) to find teacher websites)

### **Course Syllabus: Engineering Principles**

Course Description: Engineering Principles is a semester-long course that provides students with an exploratory look into the world of engineering. It will immerse the student into multiple branches of engineering, with hands-on build projects.

Course Objectives: By the end of this course, you will know and be able to:

1. Enhance problem-solving skills
2. Communicate a design idea through words, drawings, and models
3. Develop an understanding of the different branches of engineering

#### Units Taught:

1. Intro to Engineering
2. Problem Solving
3. Elements of Design and Drafting
4. Structural Engineering
5. Electrical Engineering
6. Mechanical Engineering
7. Aerospace Engineering

#### Class Expectations:

- Students will be seated by the time the bell rings, and ready to start class
- Students shall not eat in class
- Students will bring your pencils, Chromebook (charged) and notebook to class every day
- Students will show respect towards their peers, the classroom, and their teacher
- Students will put their best effort into each assignment and task
- Students will ask questions when they do not understand something
- Cell phones and smart watches shall be kept in the phone holder by the door at all times

#### Class Procedures:

- Technology: Cell phones and Chromebooks are not to be used during class unless permission is given. If cell phones are out during class at inappropriate times, they will be taken by myself and the student will be able to pick it up at the end of the school day.
- Leaving the room: Students shall sign out when leaving the classroom, no matter the reason. Students shall raise their hand and request to use the restroom, leave their phone, and sign out.
- Language: Profanity shall not be used in the classroom
- Plagiarism and Academic Integrity: Students are expected to do their own work.

#### Quarter Grading:

Projects/Classwork	70%
Quizzes	20%
Accountability	10%
* A semester test will be 20% of your <u>final</u> grade	

- Submitting: Be ready to turn in all assignments by the beginning of class
- Projects: Projects may be individual or group, and are the majority of students' grades. A rubric will outline how each project will be graded.
- Work Time: There will be days when students are given time in class to work on assignments. This is an opportunity for students to ask any questions they may have by asking the teacher or other classmates.
- Students are responsible for obtaining missed assignments from Google Classroom due to an absence.
- Students will take a quiz or test on the first day back from an absence, though I will use my judgment in certain situations.
- Late Homework: Students can turn in late homework until the end of the quarter, at which time it will be marked as a zero.
- Quiz and Test Re-Takes: Quizzes and tests are eligible for retakes up to two weeks from the date it was given. In order to qualify for the re-take, students must have completed all homework assignments for the unit and have completed corrections on all missed questions on the test. ***Students may receive full credit on re-take.***

Google Classroom: On Google Classroom you will find all assignments and announcements for class. If you have questions about when something is due or what the assignment is, check Google Classroom first. It can also be very helpful if you need help on homework. Students can post questions, and other students or myself are welcome to respond.

Attendance: If a student is tardy, a tardy form will be filled out and parents will be notified. After 2 tardies in a semester, the student will be given a detention for every tardy following.

Tips for the Students:

- ❖ The quizzes and tests will look a lot like homework assigned. Careful attention to homework and consistent practice will greatly help you on quizzes and tests.
- ❖ If you wish to re-take a quiz/test, do so **ASAP**. The longer you wait, the more likely you will confuse old content with new content.

## Students and Parents

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### Read, Sign, and Return to Mr. West

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\* I have read the syllabus and understand its contents.

\*\*I understand that I will work with specialized equipment and supplies and am responsible for any damage and/or waste. I understand that some equipment is valued at or more than \$1000 and any damage or loss that occurs while the equipment is checked out to me is my responsibility.

Even if the damage or loss is accidental, I, or my family, will be responsible for paying to fix or replace the equipment.

Student Name: \_\_\_\_\_

Student Signature: \_\_\_\_\_

Parent/Guardian Signature: \_\_\_\_\_

Please sign/return to Mr. West by Friday, August 29th for ten (10) homework points