Palos Verdes High School, Aerospace Engineering
Course Syllabus

Course Information

Teacher Name: Mr. Young Min Kwak
Class Location: Room 501
E-Mail: kwaky@pvpusd.net

Course Description

The major focus of the Aerospace Engineering (AE) course is to expose students to the world of aeronautics, flight, and engineering. Students will be introduced to the Project Lead The Way activity-based, project-based, and problem-based learning through exploring the world of aerospace engineering. Students should have experience in physics, mathematics, and technology education. They will employ engineering and scientific concepts in the solution of aerospace problems. The entire curriculum sequence will include experiences from the diverse fields of Aeronautics, Aerospace Engineering, and related areas of study. Lessons will engage students in engineering design problems related to aerospace information systems, astronautics, rocketry, propulsion, the physics of space science, space life sciences, the biology of space science, principles of aeronautics, structures and materials, and systems engineering.

Course Competencies/ Learning Objectives

Unit 1 – Introduction to Aerospace
- Evolution of Flight
- Physics of Flight
- Flight Planning and Navigation

Unit 2 – Aerospace Design
- Materials and Structures
- Propulsion
- Flight Physiology

Unit 3 – Space
- Space Travel
- Orbital Mechanics

Unit 4 – Alternative Applications
- Alternative Applications
- Remote Systems
- Aerospace Careers

What You Can Expect of Your Instructor

The course instructor serves more as a facilitator of learning than as a traditional lecturer. The instructor is sensitive to the needs of new learners of sophisticated computer applications and has an understanding of the challenges associated with teaching and learning software applications.

Student Evaluation

Assignments: Homework, In-class work and participation	-	50%
Assessments: Tests, quizzes and projects	-	50%

Grades

A ≥ 90%	C ≥ 70%	F<60
B ≥ 80%	D ≥ 60%	

Attendance Policy

Regular and prompt class attendance is an essential part of the educational experience. Palos Verdes High School expects students to exercise good judgment regarding attendance and absences. Please refer to your Student Handbook for more details.

Students will accept full responsibility for ensuring their work does not suffer because of absences. Students are expected to check the gradebook, class website, contact a classmate or the teacher to see what they missed during their absence.

Any assignments or tests that was due the day the students were absent must be turned in/ taken the next block day. For any assignments that were assigned when the students were absent, students have the same number of days there were absent to turn it in. Any subsequent assignments that are assigned once the students are back are expected to be turned in on time. Test make ups can be taken during class but student will still be responsible for work or notes that were covered during that time. Students may make arrangements with the teacher during zero period, lunch, or some other period to make up tests. If there are any extenuating circumstances, please contact the teacher as early as you can to make arrangements.

Late Work

A 50% deduction will be taken for any late assignments turned in the following day the class meets. If the assignment is still not turned in after that, it will be given a zero in the gradebook. Completed assignments that were forgotten on your desk at home is still considered late! If there are any extenuating circumstances, please contact the teacher as early as you can to make arrangements.

Classroom Expectations

1. Give every task your best effort!
2. RESPECT others' work, ideas, belongings, and space. Anything that is not yours should either not be touched or, only with permission, handled with care.
3. Cooperate with others.
4. Do not be distracted with any electronic devices, including your cellphones.
5. No food, drinks, or gum in this classroom.
6. Enter and leave the room in a respectful manner. If you come late with a pass, please hand me the pass and quietly take your seat.
7. Be safe! This is an engineering class.
8. Computers - Do not change any settings, do not download anything from the Internet (Instant Messenger, games, etc), and only use the Internet for approved activities from the instructor.

Course Requirements

- Composition notebook
- Non-graphing scientific calculator.
- Writing utensils, include a red pen and another contrasting colored pen/pencil.

Plagiarism, Cheating, and Academic Integrity

Plagiarism is the practice of copying words, sentences, images, or ideas for use in written or oral assessments without giving proper credit to the source. Cheating is defined as the giving or receiving of illegal help on anything that has been determined by the teacher to be an individual effort. Both are considered serious offenses and will significantly affect your course grades. Do not take pictures of any answers or tests.
Please check our school website for more information.

I,_____ (print your name), have read the above standards and expectations and accept the responsibility for meeting these expectations.

Student Signature: _____ Date_____

Parent Signature: _____ Date_____