

**Aerospace Syllabus**  
**Eric C. Wolgemuth**  
**2021-2022**

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**Course Length** 1 Semester

**Credits** .5

**Course Description** Aerospace technology is an exploration into the science of flight and the impact of aerospace technology on our world. You will explore the history of aviation from the Wright Brothers up to and including a "Mission to Mars" simulation. You will design, build, and fly working prototype that actively apply the scientific principles and technologies of flight.

**Course Objectives** At the end of this course students will be able to:

- Evaluate the history and impact of aviation throughout the 20th century
- Analyze the basic forces acting on an aircraft in flight
- Learn and apply basic concepts of 20th Century Aircraft Navigation
- Work within your group to develop/simulate a human Mission to Mars
- Design and build several aircraft prototypes & models
- Research and review potential career opportunities in aviation, airport management and related fields

**Comprehensive syllabus including my philosophy of teaching:**

- <https://misterwghhs.s3.amazonaws.com/physics/documents/physics%20syllabus%20-%20comprehensive.html>

**Materials**

The following is a list of all materials you are expected to bring with you to class every day, unless otherwise instructed:

- A laptop or district issued chromebook computer
- Mr W Physics Classroom Website: <https://misterwghhs.s3.amazonaws.com/index.html>

**Assessments**

Summative assessments are given at the end of each unit and make up a significant part of the semester grade.

**Graded & Ungraded Quizzes**

Quizzes are given approximately once a week. It is important to note that some of those quizzes are 'formative' in that they are usually short quick assessments to take a quick snapshot of how the unit is progressing allowing me to make adjustments in my teaching.

Occasionally and especially during long units, short (usually 15 - 20 minutes) quizzes are given to verify that students are progressing appropriately. Those quizzes are graded and apply to students' semester grade.

**Project Reports**

Students will work within their project groups to design, conduct and discuss their aviation investigations. However, under NO circumstances will students share written work as the Project Report must be done individually and is an important part of their semester grade.

**Homework**

I expect students to review our work and to do a reasonable amount of work (usually 30 minutes or less) once or twice a week. That is learning time and is therefore not graded.

### Re-Assessment

Retakes are available for all quizzes and tests. Additionally, if I'm uncomfortable with the level of a student's performance on a Project Report or other written work I will conference with that student and request a second draft.

### Classroom Expectations

Everyone in our class (including the teacher) are expected to: Show Respect, Make Good Decisions, Solve the Problem

#### Course grading is graded based on PSD norms:

GRADE	DISTRICT CUTOFF %	DISTRICT GRADE VALUE
A	93	95
A-	90	91
B+	87	88.5
B	83	85
B-	80	81
C+	77	78.5
C	73	75
C-	70	71
D+	67	68.5
D	60	65
F	0	50
I	0	0
NC	0	0
P	0	0

### Code of Academic Integrity:

Gig Harbor High School is first and foremost an academic community; its fundamental purpose is the pursuit of knowledge. Essential to the success of this educational mission is a commitment to academic integrity. Every member of our school community is responsible for upholding the highest standards of honesty. Students, as members of the community, are responsible for adhering to the principles and spirit of the following Code of Academic Integrity:

### Academic Dishonesty Definitions:

Activities that have the effect or intention of interfering with education, pursuit of knowledge, or fair evaluation of a student's performance are prohibited. Examples of such activities include but are not limited to the following definitions:

1. **Cheating:** using or attempting to use unauthorized assistance, material, or study aids in examinations or other academic work or preventing, or attempting to prevent, another from using authorized assistance, material, or study aids. *Example:* using a cheat sheet in a quiz or exam.
2. **Plagiarism:** using the ideas, data, or language of another without specific or proper acknowledgment. *Examples:* Copying another person's program code, article, or computer work and submitting it for an assignment, cloning someone else's ideas without attribution, failing to use quotation marks where appropriate. Copying and pasting ANY information from the internet without proper attribution. Copying and pasting ANY information from another person or source without proper attribution.
3. **Facilitating academic dishonesty:** knowingly helping or attempting to help another violate any provision of the Code. *Example:* working together on a take-home exam, etc.

If a student is unsure whether his action(s) constitute a violation of the Code of Academic Integrity, then it is that student's responsibility to consult with the instructor to clarify any ambiguities.

**Parent Communication:** Please contact me at [wolgemuthe@psd401.net](mailto:wolgemuthe@psd401.net) or in my classroom 253-530-1481 (outside of school hours please) with any questions.

### **Aerospace Course Outline Recognition of Assent**

After reading the syllabus, please read and sign the following statement. Also, please explain the syllabus to your parent and have them sign the statement below.

#### **Student**

I, \_\_\_\_\_, have read, understand, and accept the aforementioned policies and commit to putting forth my best effort in this class this year.

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Student Signature

Date

#### **Parents/Guardians**

I have read, understood, and accepted the aforementioned policies. I commit to supporting my student and Mr. Manch to the best of my abilities to help ensure my student's academic success.

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Parent/Guardian Signature

Date