

Textbook: Aerospace Dimensions, Second Edition 2010 digital copy

Price to replace textbook: \$25.00 for paper copy

Course Fee: \$25.00

Course Description: Intro To Tech 7/8 or Aerospace Education is a science-based elective that teaches aerospace in a fun and engaging way. This course will introduce students to the concepts and laws of basic flight, engaging in rocketry, study role models in aviation, and careers in the field of aerospace.

- I. Course goals: Lessons will be designed to not only include Nevada State Math, Science, Social Studies Standards, but also **Nevada Common Core State Standards for English Language Arts & Literacy** in order to improve reading, reading comprehension, and writing skills. We will also be engaged in PBL (Project Based Learning) that will more deeply engage the students in the topics that we will cover. We will
 - a. peak an interest in aerospace to possibly attend Rancho High School Magnet Program..
 - b. be review and test basic flight.
 - c. engage in rocketry and engineering ethics.
 - d. study and employ the methods of the space environment through critical thinking and manipulation.
 - e. understand aircraft systems and airports.
 - f. study the space environment through simulation.
 - g. study spacecraft and the contributions to today's space industry.
 - h. explore careers in the aerospace industry.
 - i. explore sUAS
 - j. utilize flight simulators to gain a greater understanding of how flight works.
 - k. use Tinkercad to design our ideas and so that students can bring those ideas to life.

***Time and sequence may change due to student interest and participation.

- II. Course content and time schedule (sequential)
 - a. First Quarter: Introduction to Flight which includes the use of sUAS, including Flight simulator and Real Flight
 - b. Second Quarter: Aircraft Systems and Airports and the Air Environment
 - c. Third Quarter: Engage in Rocketry
 - d. Fourth Quarter: The Space Environment and Spacecraft
- III. Course activities: "We first learn then we do" is our course motto.
 - a. The use of iPads, classroom computers, sUAS and other technological items will be utilized throughout the Intro To Tech 7/8 or Aerospace Education course.
 - b. Classwork is to be done as classwork. If classwork is incomplete, then it will be considered homework.
 - c. A variety of assessments will be given each quarter: oral, formative and summative in nature.
 - d. Homework:
 - i. If your student does not complete the work during class time it is considered homework.
 - ii. To prepare for assessments and projects.
- IV. Curricular programs: Students will be using technology, Project Lead The Way (PLTW) AOPA Curriculum and technology to create, describe and teach throughout the school year. Some activities will require work to be done at home. Many activities will be done as a group and each member will have a specified task to complete. Their contribution is important for the group and their learning of the

required content. Please discuss with your student the importance of being an active member of a team to achieve a common goal. We will actively learn, create and use our newly acquired information to show understanding.

V. Evaluation

- a. Criteria for arriving at students grades -
 - i. Participation/contribution/attendance
 - ii. Homework/in-class assignments
 - iii. Test/quizzes
 - iv. Special projects
 1. Category percentages determining grades are as follows:
 - a. Assessments = 50%
 - b. Classwork = 40%
 - c. Homework/Participation = 10%
- b. Semester exams will be worth 20% of the SEMESTER grade
 - i. Semester exams will not be administered early. Students who are absent may make-up their exams on the district approved make-up day.
- c. Explanation of student grades
 - i. A 100 – 90%
 - ii. B 89 – 80%
 - iii. C 79 – 70%
 - iv. D 69 – 60%
 - v. F 59 and below
- d. How and when students will be advised of their grades
 - i. Parents and students are urged to check the Infinite Campus Portal for grades regularly.
 - ii. Upon completion of 3rd week of each quarter, students with either a “D” or “F” will be required to return a signed progress report by parent/ guardian.
 - iii. Progress Reports are distributed after 5th week of each quarter along with required parent signature sheets
- e. Citizenship/behavior expectations:
 - i. Citizenship/behavior expectations Citizenship is taken very seriously here at Leavitt Middle School. Teachers expect the very best from their students every day. Students are expected to bring supplies to class, pay attention, stay on task, talk when appropriate, be respectful to all teachers and students, avoid nuisance items, such as cell phones and toys, and to not chew gum or eat in class. Students who cannot work within these expectations will have points deducted from their citizenship grades. Other actions which disrupt the learning environment of the classroom or other students will also be documented and points will be lost.
 - ii. Below is the scale for citizenship. All reports of misconduct will be documented in the teachers’ grade book. This way, both the students and parents will be able to check Infinite Campus Portal to see what his or her current citizenship grade is, and why points have been lost.
 - iii. Once the behavior has been noted, the citizenship grade will not be changed due to better behavior for the remainder of the grading period.

0-2- Outstanding

3-5 Satisfactory

6-8 Needs Improvement

9 or more- Unsatisfactory

- f. Late Work policy – If a student does not complete any assignment (for reasons other than an absence), they will be assigned a make-up work detention the following school day from 3:30 to 4:25 EVEN if they turn the assignment in the next school day.
- g. Test retake policy – A student may only retake a test if 1) all assignments have been turned in 2) the student has asked for help, clarification, or exhibited evidence of further studying and a further mastery of the subject matter 3) that their original test grade was a 65% or below.

VI. **School-Wide Rules**

- a. Follow directions quickly.
- b. Raise your hand for permission to speak.
- c. Raise your hand for permission to leave your seat
- d. Make SMART Choices: Kindness, Leadership, Courage, Invincible Grit, Creativity
- e. Work hard to do your best for your teachers and parents at all times.
- f. Keep your eyes on the target.

VII. **TARDY POLICY – Progressive Steps**

- a. 1st Tardy – Warning & Parent Phone Contact and this will be noted in Infinite Campus
- b. 2nd Tardy – Warning & Parent Phone Contact and this will be noted in Infinite Campus
- c. 3rd Tardy – Non-TRS RPC and this will be noted in Infinite Campus
- d. 4th Tardy – After School Detention and this will be noted in Infinite Campus
- e. 5th Tardy – In-House Suspension (IHS)
- f. 6th Tardy – Required Parent Conference – RPC/Tardy Contract
- g. 7th Tardy – IHS/parent and student meet with the principal

VIII. **BEHAVIOR- Progressive Discipline**

- a. 1st Incident – Verbal warning and this will be noted in Infinite Campus
- b. 2nd Incident - Parent contact by teacher through email or phone call and this will be noted in Infinite Campus
- c. 3rd Incident – Written contact to parents through email or phone call and this will be noted in Infinite Campus
- d. 4th Incident – Counselor referral and this will be noted in Infinite Campus
- e. 5th Incident – Deans' referral and this will be noted in Infinite Campus

IX. **Supplies needed for this course**

- a. 1 Composition notebook
- b. Personal colored pencils / or color pens
- c. 2 glue sticks / or tape to be replenished by the student when needed
- d. 1 Highlighter pen
- e. Scissors

- X. Utilizing technology to learn – At Leavitt, we want to encourage the daily use of technology in and out of the classroom to further enhance the educational experience. As such, Leavitt will be providing students with individual devices in all grades to utilize in class and at home. Students will also be provided with a Google email address to correspond with their teacher and classmates on projects, as well as to turn in assignments. Students may choose to utilize their own electronic tablets (iPads, Kindle Fire, Samsung, etc.) cell phones, laptops, and reading devices for educational purposes.

Please be reminded that your student is responsible for the safety of their personal device and must utilize the district's Wifi to ensure their internet safety. All use of these devices will be for educational purposes and must be approved by the individual teacher.

XI. Explanation of fees (if applicable)

- a. A course fee of 25.00 will apply for this course. This fee will cover the many expenses that will be incurred throughout the semester. The money collected will cover the cost of project material, educational references/software, and the numerous classroom project supplies.

XII. Teacher's hours of availability

- a. Teachers are available from 8:30 – 9:00 a.m. and 3:21 - 3:41 p.m. Monday thru Thursday by appointment. You can also contact the teacher through e-mail.

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