**Course Title:** Geometry Honors
**School:** Los Altos High
**UC/CSU requirement:** Yes/Yes
**Textbook and/or other learning resources:** Serra, Discovering Geometry, 5E, 2015

**Course Description/Student Learning Outcomes:**

Geometry is a fundamental math course. It is devoted mainly to plane geometry, with shorter introductions to solid geometry and plane coordinate geometry. Students will develop logical reasoning and learn how to form deductive mathematical proofs.

**Course Outline/Units of Study:**

By the end of this course, students will be able to:
1. Interpret and use the vocabulary and notations of Geometry.
2. Make appropriate assumptions or conclusions from a diagram.
3. Construct a logical argument to establish a proof based upon definitions, theorems and postulates.
4. Use transformations to produce or prove congruent and similar figures.
5. Identify and use the relationships between angles, perpendicular lines, parallel lines, planes and plane figures to solve problems
6. Use the trigonometric ratios of right triangles and use them to solve real-world application problems.
7. Apply formulas to find lengths, area and volume of 2D and 3D figures, including circles, polygons, prisms, pyramids, cylinders and cones.
8. Use probability to evaluate outcomes and justify decisions.

**Assessment and Grading (**BP 5121 / AR 5121**):** To ensure that every student has an equal opportunity to demonstrate their learning, the course instructors implement aligned grading practices and common assessments with the same frequency.

1. Grading categories and their percentage weights:

    | | |
    |---|---|
    | Tests/Projects | 55% |
    | Quizzes | 20% |
    | Assignments | 10% |
    | Final Exam | 15% |

2. Achievement evidence collected within each grading category:
    Grades will be determined on the basis of performance on homework, classwork, quizzes, projects, and tests.

3. Grading scales:

    **A** 90% to 100%     **B** 80% to 89%     **C** 70% to 79%     **D** 60% to 69%     **F** below 60%

4. Homework/outside of class practices (AR 6154):
    Daily homework assignments are due at the beginning of the following class and will be checked for completion. Late work will be accepted by the day of the unit assessment for partial credit.

5. Excused absence make-up practices (Education Code 48205(b)):
    If a student has an excused absence, it is the student's responsibility to find out what work is missing. Homework will be accepted with one extra day allowed for each day of the absence. Homework assignments for an absence will be checked along with the next day's assignment. **Unexcused** absences are not covered under the above policy and will result in a score of zero.

6.  Academic integrity violation practices ([LAHS Academic Integrity Policy](#)):
    Honesty, trust and integrity are vital components of the education process. The Governing Board believes that academic honesty and personal integrity are fundamental components of a student's education and character development. The Board expects that students will not cheat, lie, plagiarize or commit other acts of academic dishonesty. Students and families should understand and act upon the values of academic integrity and should encourage the highest standards of academic behavior from themselves and their peers.

    It is assumed that all work completed for a class is original work created for that class, for a specific assignment. Please refer to the Academic Integrity policy in the student handbook. For categories A and B, the "V" will be worth zero with no opportunity of point recovery. For violations in category C students will receive a failing grade in the course.

    Below are examples of each category:
    **Category A: Minor Violations**
    This category involves violations related to smaller assignments such as classwork and homework.
    Examples:
    - Using an online answer key (either teacher-made or from a third party) and claiming the work as one's own.
    - Using technology in an unethical manner to complete assignments, including but not limited to cell phone applications (such as PhotoMath, Mathway, Symbolab, etc.), use of Ai technology, and sharing pictures via social media websites.

    **Category B: Major Violations**
    This category involves violations related to major gradebook entries such as quizzes, tests, projects, and final exams.
    Examples:
    - Sharing or requesting any information from a test with another student who has or has not taken the test.
    - Unauthorized use of technology during an exam (e.g., cell phone, smart watch, etc.).
    - Violating any assessment rule provided by the teacher within the parameters of the assessment.

    **Category C: Severe Violations**
    This category involves severe violations that compromise the integrity of the educational process.
    Examples:
    - Accessing a teacher's gradebook to alter grades.
    - Stealing any assessment from the class that is not authorized by the teacher to leave the classroom.

7.  Late work practices:
    Late work will receive partial credit and be accepted up until the respective unit assessment unless the student had an excused absence. Assignments that are submitted after the respective test date will not receive any credit.

8.  Revision practices:
    Quizzes: Quiz scores can be replaced by the corresponding unit test score if the test score is higher.

    Tests: Students will be able to receive credit for test corrections.

9.  Extra credit practices:
    Extra credit will not be granted in this course.

10. Additional grading practices:
    Group work: Students will work in groups during class discussing homework solutions, working on challenge problems, and group projects. Grades for group engagement and for contribution in projects will be for individual performance; no group grades will be given.

11. LMS Used: Teacher dependent

**Instructors' email addresses:**

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|---|---|
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