**MVLA**
**2025-26**
**COURSE INFORMATION SHEET**

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| **Course Title:** | Trigonometry/Math Analysis Honors |
| **School:** | Los Altos High School |
| **UC/CSU requirement:** | Yes/Yes |
| **MVLA Graduation requirement:** | May be used to count toward the two-year math requirement for MVLA graduation. |
| **Textbook and/or other learning resources:** | *Precalculus*, 10th edition; Michael Sullivan |

**Course Description/Student Learning Outcomes:**

Students will formulate solutions to problems based on applications of mathematical principles. Students will be asked to analyze data, to organize information, and to relate the information to a similar problem to formulate a solution. Students will be expected to apply mathematical skills at an advanced level and to demonstrate an ability to use mathematics in practical applications of life and physical sciences. Students will be expected to write mathematical solutions to problems in a clear and meaningful way. Students will present their work to the class and explain solutions to problems. Students will be asked to identify, analyze, and solve mathematical problems. Students will need to develop strategies for reaching conclusions and to apply these strategies in new situations.

Topics covered in the course include functions (linear, quadratic, polynomial, rational, exponential, logarithmic, trigonometric), analytic trigonometry, applications of trigonometric functions, polar equations, vectors, analytic geometry, systems of equations, sequences, and series.

**Course Outline/Units of Study:**

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| Ch.1-3 | Graphs, Linear & Quadratic Functions |
| Ch.4 | Polynomial and Rational Functions |
| Ch.5 | Exponential and Logarithmic Functions |
| Ch.6 | Trigonometric Functions |
| Ch.7 | Analytic Trigonometry |
| Ch.8 | Applications of Trigonometric Functions |
| Ch.9 | Polar Coordinates; Vectors |
| Ch.10 | Analytic Geometry |
| Ch.11 | Systems of Equations and Inequalities |
| Ch.12 | Sequences; Induction; the Binomial Theorem |
| Ch.14 | Preview of Calculus |

**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:**

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| Tests/Projects | 50% |
| Weekly Quizzes | 20% |
| Assignments | 10% |
| Final Exam | 20% |

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:**

*Grades will be assigned on the basis of the following percentages. (*Semester grades will not be rounded.)*

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| 90 to 100% | A |
| 80 to 89.9% | B |
| 70 to 79.9% | C |
| 60 to 69.9% | D |
| Below 60% | F |

4. **Homework/outside of class practices (AR 6154):**
Daily homework assignments are expected to be completed by the beginning of the following class. Students may use their homework during quizzes. In order to receive full credit, students are expected to take notes on vocabulary words, attempt all homework problems, and check available answers while completing their assignment.

5. **Excused absence make up practices (Education Code 48205(b)):**
If the student has an excused absence, it is the student's responsibility to find out what work is missing. All missed assignments/assessments are due within the same number of days as the excused absences. **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 grade book 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 credit on homework/classwork will receive up to 50% credit and be accepted up until the respective test unless the student had an excused absence. Assignments that are submitted after the respective test

date will not receive any credit.

8. **Revision practices / Test Retake Policy:**
   Quizzes are worth 10 points and may originally receive a score of 0, 5, 5+, or 10. Students may complete quiz corrections to raise a 5 to an 8 and a 5+ to a 9. Students that receive a 0 will not be eligible to do quiz corrections. Quiz corrections will be accepted up until the respective test unless the student had an excused absence.

   Final exams and semester projects will not receive credit for revision. Students who earn below 75% on a test may retake it for a maximum grade of 75% (except in cases of academic integrity violations). Students are allowed to retake up to two tests per semester. Students must complete test corrections prior to scheduling a retake. Retakes must be completed by the last instructional week of each semester.

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

10. **Additional grading practices:**
    Materials:
    A binder/notebook will be required to preserve all assignments and class notes. Teachers may check it periodically and may also be used for conferences with other teachers, counselors, administrators or parents. A graphing calculator is required for the course, which can be checked out from the textbook room. Recommended graphing calculator models are TI-84, TI-84 Plus CE, TI-Nspire, TI-83. A 4-function calculator is recommended.

    Test/Quiz Policy:
    If an assessment is missed, the student must consult the teacher upon return to class to set up a time to make it up. All missed tests and quizzes must be made up within the same number of class days as the excused absence. **Unexcused** absences are not covered under the above policy and will result in a score of zero.

    Group Work:
    All students will be expected to participate actively in group discussions and activities. In-class group work/discussions will be graded in the Assignments category, group quizzes in the Quiz category, and project presentations in the Test/Projects category. Participation in group activities will be vital to each student's ability to succeed.

11. LMS used: Google Classroom and/or Canvas

**Instructors' email addresses:**


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