Course Title:Trig/Math Analysis
CTE Pathway Sequence (if applicable): NA
School: Alta Vista High School
UC/CSU requirement: A-G (C) is offered, students must see instructors about requirements for A-G credit.
MVLA Graduation requirement:YES
Textbook and/or other learning resources:ALEKS Math by McGraw Hill

Course Description/Student Learning Outcomes:

This course is a pre-calculus course designed to prepare students for Calculus AB. Students will gain experience with

advanced mathematical concepts and use the concepts to model situations mathematically to solve problems. By the

end of the course, students will be able to:
● Identify, transform, graph, and model problems using polynomial functions.
● Recognize exponential and logarithmic functions as inverse functions, and use them to model real-life problems.
● Understand properties and behaviors of rational functions.
● Apply trigonometric functions of angles, their periodic nature, and their inverses to solve problems and represent them graphically.
● Use trigonometric identities to simplify expressions or prove equivalence.
● Identify equations, graphs, and applications of conics.

Course Outline/Units of Study/CTE Industry Standards(If applicable to your course):

Units of study will include:
● Algebra and Geometry Review
● Equations and Inequalities
● Graphs and Functions
● Trigonometric Functions
● Trigonometric Graphs
● Trigonometric Identities and Equations
● Triangles and Vectors
● Polar Coordinates and Complex Numbers
● Conic Sections

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:
   Math Credit:
   a. 100% Standards
      i. Attainment and Knowledge Check Assessments
   b. Elective Credit:
      i. 50% Active Program Engagement / 50% Note Taking

2. Achievement evidence collected within each grading category:
   Students demonstrate mastery on multiple topics within the aforementioned domains earning passing scores of **80% or better to obtain CP Credit**. If the student can not maintain a 80% or better they will earn non CP credit.

3. Grading scales:

A+ 100 +	C 74-77
A 93-100	C- 70-73
A- 90-93	D+ 67-69
B+ 87-89	D 64-67
B 83-87	D- 60-63
B- 80-83	F 50-59.99
C+ 77-79	

4. Homework/outside of class practices ([AR 6154](#)):
   6th period is available twice a week for help on in class assignments.

5. Excused absence make-up practices ([Education Code 48205(b)](#)):

6. Academic integrity violation practices ([LAHS Academic Integrity Policy](#) / [MVHS Academic Integrity Policy](#)):

7. Late work practices:
   There is no late work policy. We like to keep our program as flexible as possible, allowing students to work at their own pace. However, point accumulation and components of your grade are based on class progress. Should a student exhibit little to no movement in this class after repeated interventions, a class change may be in order.

8. Revision practices:
   Students are given multiple opportunities per topic to demonstrate mastery with an 70% or better before an intervention loop with remediation is initiated for reteaching.

9. Extra credit practices:
   If any extra credit is offered, each student will be given the opportunity to complete it.

10. Additional grading practices:
    Students and parents can expect points to be updated at least once every two weeks.

11. LMS Used:
    [ALEKS.com](#)

Instructors' email addresses:

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Additional information: