

Trigonometry – MATH 1316.192
Course Syllabus – Spring 2023
South Plains College

Instructor: Danae Burton

Campus: Levelland High School

Room: 105

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Course Supplies:

- A spiral notebook for taking notes during class.
- A separate notebook (or a section of your notetaking notebook) for daily bellringers.
- A pen or pencil.
- A 3-ring binder with dividers to keep graded papers and tests

Textbook: The textbook we will be using for this class is *Trigonometry*, Dugopolski, 2019, 5th Edition. You do not need to purchase the textbook unless you would like a physical copy for reference. A PDF version of the book will be available on Google Classroom.

Technology: This class will primarily utilize Google Classroom for all lecture materials, class videos, and announcements. Blackboard will be used to view your grade in the class for SPC while Skyward will be used to view your grade for LHS.

Homework/Quizzes:

- Homework will be assigned at the end of each section of notes and is **due 3 days after the assigned day**.
- The beginning of each class will be open to homework questions.
- **Quizzes will be given each day that an assignment is due.** The quiz will be taken at the beginning of class and will be turned in with the homework due on that day.
- Quizzes will be worth 20 points of the assignment and the homework will be worth 80 points of the assignment.
- At the end of the semester, the lowest 2 assignment grades will be dropped.
- All students will be required to keep graded assignments in a 3-ring binder to be used as a reference and study guide for exams.

Exams:

- There will be four unit exams during the semester and one final exam.
- The final exam will be comprehensive.
- The final exam is tentatively scheduled for **May 11-12**.

Grades:

- Grades for SPC and LHS will be calculated as follows:

4 Exams at 15% each	60%
Assignments/Quizzes	20%
Final Exam	20%

Tentative Course Outline – Spring 2023

Week	Dates	Lesson
1	Jan 2-6	No school Monday – Student Holiday 1.1 Angles and Degree Measures 1.2 Radian Measure, Arc Length, Area
2	Jan 9-13	1.3 Angular and Linear Velocity 1.4 The Trigonometric Functions
3	Jan 16-20	No school Monday – Student Holiday 1.5 Right Angle Trigonometry 1.6 Fundamental Identities and Reference Angles
4	Jan 23-27	Review for Exam 1 Exam 1 3.1 Basic Identities
5	Jan 30 - Feb 3	3.2 Verifying Identities 3.3 Sum and Difference Identities for Cosine
6	Feb 6-10	3.4 Sum and Difference Identities for Sine and Tangent 3.5 Double-Angle and Half-Angle Identities
7	Feb 13-17	3.6 Product and Sum Identities Review for Exam 2 Exam 2 No school Friday – Student Holiday
8	Feb 20-24	No school Monday 2.1 The Unit Circle and Graphing 2.2 The General Sine Wave
9	Feb 27 – Mar 3	2.3 Graphs of Secant and Cosecant 2.4 Graphs of Tangent and Cotangent
10	Mar 6-10	4.1 Inverse Trig Functions 4.2 Sine, Cosine, and Tangent Equations
11	Mar 13-17	No school – Spring Break
12	Mar 20-24	4.3 Equations Involving Compositions 4.4 Trig Equations of Quadratic Type
13	Mar 27-31	Review for Exam 3 Exam 3
14	Apr 3-7	5.1 Law of Sines 5.2 Law of Cosines No school Friday – Student Holiday
15	Apr 10-14	No school Monday 5.3 Area of a Triangle 5.4 Vectors
16	Apr 17-21	5.5 Applications of Vectors Review for Exam 4 Exam 4
17	Apr 24-28	6.1 Complex Numbers 6.2 Trig Form of Complex Numbers
18	May 1-5	6.4 Polar Equations 6.5 Parametric Equations (Optional) 6.5 Func with Polar and Parametric Equations
19	May 8-12	Review for Final Exam Final Exam May 11-12
20	May 15-19	Grades due for SPC May 15

