

Trigonometry – MATH 1316.192
Course Syllabus – Spring 2024
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 pen or pencil.
- A 1" 3-ring binder with dividers to keep graded papers and tests OR a dedicated folder.

Student Expectation:

- Come to class prepared and ready to take notes and learn.
- Be kind to other students and the teacher.

Technology: This class will primarily utilize Google Classroom for all lecture materials, class videos, announcements, and bell ringers. Blackboard will not be used for this class.

Homework/Quizzes:

- Homework will be assigned at the end of each section of notes and is **due 3 days after the assigned day**. For each day an assignment is late, 10 points will be deducted from the assignment. After 3 days, a late assignment will receive a zero.
- 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 or folder 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 8-10**.

Grades:

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

Category	Skyward Label	Weight
Assignments (HW + Quiz)	Assignment	25%
Exam 1	Deadline	15%
Exam 2	Employer Evaluation	15%
Exam 3	Projects	15%
Exam 4	Research Paper	15%
Final Exam	Tests	15%

(Skyward does not allow me to edit category names or add new ones.)

Tentative Course Outline – Spring 2024

Week	Dates	Lesson
1	Jan 8-12	No school Monday – Student Holiday 1.1 Angles and Degree Measures 1.2 Radian Measure, Arc Length, Area
2	Jan 15-19	1.3 Angular and Linear Velocity 1.4 The Trigonometric Functions
3	Jan 22-26	1.5 Right Angle Trigonometry 1.6 Fundamental Identities and Reference Angles
4	Jan 29 – Feb 2	Review for Exam 1 Exam 1 3.1 Basic Identities
5	Feb 5-9	3.2 Verifying Identities 3.3 Sum and Difference Identities for Cosine
6	Feb 12-16	3.4 Sum and Difference Identities for Sine and Tangent 3.5 Double-Angle and Half-Angle Identities No school Friday
7	Feb 19-23	No school Monday – Student Holiday 3.6 Product and Sum Identities Review for Exam 2
8	Feb 26 – Mar 1	Exam 2 2.1 The Unit Circle and Graphing 2.2 The General Sine Wave
9	Mar 4-8	2.3 Graphs of Secant and Cosecant 2.4 Graphs of Tangent and Cotangent
10	Mar 11-15	No school – Spring Break
11	Mar 18-22	4.1 Inverse Trig Functions 4.2 Sine, Cosine, and Tangent Equations
12	Mar 25-29	4.3 Equations Involving Compositions 4.4 Trig Equations of Quadratic Type No school Friday – Student Holiday
13	Apr 1-5	No school Monday Review for Exam 3 Exam 3
14	Apr 8-12	5.1 Law of Sines 5.2 Law of Cosines
15	Apr 15-19	5.3 Area of a Triangle 5.4 Vectors
16	Apr 22-26	5.5 Applications of Vectors Review for Exam 4 Exam 4
17	Apr 9 – May 3	6.1 Complex Numbers 6.2 Trig Form of Complex Numbers
18	May 6-10	Review for Final Exam Final Exam May 8-10 (TBD)
19	May 13-17	Grades due for SPC May 13 Graduation May 17

