

South Plains College  
Department of Mathematics and Engineering  
MATH 1316 – Plane Trigonometry  
Spring 2020 Course Syllabus

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**Instructor:** Mrs. Bethany Goen, B.S., M.A.

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**Facebook Page:** Mrs. Goen's Mathematics Class

**Office:** Room 41

**Office Hours:** M-Th 11:50am-2pm, or by appointment :

**Disclaimer:** The instructor reserves the right to alter any class policies/dates as deemed necessary by the instructor, and will announce any changes in class.

**Please refer to the MATH 1316 Common Course Syllabus for SPC!**

**Supplies:** You will need a graphing calculator, pencils, and paper. You may use either the TI-84+ or TI-nSpire CX (not the CX CAS) graphing calculators. You will also be required to bring your chrome book to class each day. Please use a notebook to keep all class notes, homework, and exams together, which will be useful for your comprehensive final exam. Please note: I require pencil on all graded work. You will be given one warning and after that, you will earn a zero on any work where you fail to follow my instructions.

**Accessing Blackboard:** Go to: <http://spc.blackboard.com>

User name: first initial, last name, and last 4 digits of your Student ID Password: Original Campus Connect Pin No. (found on SPC acceptance letter) If you need assistance with Blackboard, please email [blackboard.southplainscollege.edu](mailto:blackboard.southplainscollege.edu).

**Grading Policy:** Grades will be posted on blackboard. If you think I have recorded a grade incorrectly, please notify me immediately and I will check my hard copy.

<u>Category</u>	<u>Percentage of Final Grade</u>	<u>Overall Grade</u>
Assignment Assessments	10%	A: 90%-100%
Quizzes	30%	B: 80%-89%
Exams	40%	C: 70%-79%
Comprehensive Final	20%	D: 60%-69%
		F: 0%-59%

**Concerning Assignments & Assessments:** You should expect to spend as much time outside of class as you do in class completing homework problems and studying. Your goal is to acquire the skills necessary to be successful in any following mathematics course. Homework will be assigned at each class meeting. If you are absent, your homework assignment can be found on Remind and Blackboard. Homework is an opportunity to learn and practice the art of trigonometry. Please feel free to collaborate with your classmates, check the solutions in your book, watch videos on YouTube, such as those at KhanAcademy.org, or use resources such as desmos.com, wolframalpha.com, etc. If you are interested in passing the class, you will need to do well on the quizzes and tests. These assessments will be done independently and without the aid of any technology, with the exception of your calculator. Even when using calculators, one must show all pertinent work. To do well on the quizzes, you will need to not only complete the homework, but understand it. You should show all work when doing any assignment or assessment in this class, and it must be done in pencil. **There are no retakes or corrections in this class.** Assignments will be assessed through a seven minute quiz. If you complete all assignment quizzes on time and make above a 60 on each one, I will drop your lowest quiz grade. If you do poorly on an exam, you may replace up to one exam grade with the grade from your comprehensive final exam.

**Attendance:** In order to be successful, you must be in attendance. Class attendance may be taken at any time during the class period, so please do not be tardy or leave early. Failure to attend this class can result in an F on your transcript. If you should incur an absence, please refer to your syllabus, contact your professor, or contact another student to get the assignment completed BEFORE the next class. Late homework and makeup quizzes are not an option. If you miss an exam, a make-up exam will only be given if prior arrangements have been made, preferably prior to the exam day.

**Testing:** All tests will start last one hour. Once you begin the exam, you will not be allowed to leave the classroom until the exam is submitted for grading. The use of electronics (smart phones and watches, computers, etc.) during an exam will earn you a zero on the exam.

**Academic Integrity:** It is the aim of the faculty of South Plains College to foster a spirit of complete honesty and a high standard of integrity. The attempt of any student to present as his or her own any work which he or she has not honestly performed is regarded by the faculty and administration as a most serious offense and renders the offender liable to serious consequences, possibly suspension, but at the least a mandatory and irreparable zero. Dishonesty of any kind on examinations or on written assignments, illegal possession of examinations, the use of unauthorized notes during an examination, obtaining information during an examination from the textbook or from the examination paper of another student, assisting others to cheat, alteration of grade records, illegal entry or unauthorized presence in an office are examples of cheating. Complete honesty is required of the student in the presentation of any and all phases of course work. This applies to quizzes of whatever length, as well as to final examinations, to daily reports and to term papers. Offering the work of another as one's own, without proper acknowledgment, is plagiarism; therefore, any student who fails to give credit for quotations or essentially identical expression of material taken from books, encyclopedias, magazines and other reference works, or from the themes, reports or other writings of a fellow student, is guilty of plagiarism.

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## Tentative Course Schedule

DATE	MATH 1316	MATH 1342	DATE	MATH 1316	MATH 1342
1/6/2020	PRETEST	PRETEST	3/5/2020	Solving Trig Equations	Quiz
1/7/2020	P.1 & P.2	Intro to Stats	3/6/2020	Solving Trig Equations	Review
1/8/2020			3/9/2020	Quiz	Test/HW Due
1/9/2020	P.3	Classify Data	3/10/2020	Review	Intro to Significance Tests
1/10/2020	P.4	Study Design	3/11/2020	Test P1	Intro to Hypothesis Test
1/13/2020	Periodic Data	Quiz	3/12/2020	Test P11/HW Due	Errors
1/14/2020	Angles/UC	Freq Distributions	3/13/2020	Identity Activity	Type I and II Error Activity
1/15/2020	Radians	Graphical Display	3/23/2020	Law of Sines	Z-Tests
1/16/2020	Cont...	Cont...	3/24/2020	Law of Sines	Hypothesis Tests - Small
1/17/2020	Radians	Measures of Central Tendency	3/25/2020	Law of Cosines	Hypothesis Tests - Large
1/21/2020	Quiz, Angular & Linear Velocity	Measures of Variation	3/26/2020	Law of Cosines	Hypothesis Tests - Proportions
1/22/2020	Right Angle Trig	Positions in a Distribution	3/27/2020	LOS/LOC Lab	Quiz
1/23/2020	Unit Circle	Quiz	3/30/2020	LOS/LOC Lab	Review
1/24/2020	Unit Circle	Review	3/31/2020	Quiz	Test/HW Due
1/27/2020	Properties of Trig Functions	Test/HW Due	4/1/2020	Vectors	Z-Tests for Diff Means
1/28/2020	Quiz	Probability & Counting	4/2/2020	Vectors & Applications	T-Tests for Diff Means
1/29/2020	Review	P & C Part II	4/3/2020	Vectors & Dot Product	T-Test Paired Data
1/30/2020	Unit Circle Test	Multiplication Rule & Conditional Probability	4/6/2020	Vectors & Angles	Z-Test for Proportions
1/31/2020	Test/HW Due	Gambling Application	4/7/2020	Quiz	Quiz
2/3/2020	Graph - Sine & Cosine	Quiz	4/8/2020	Review	Review
2/4/2020	Graphs of other Trig Functions	Review	4/13/2020	Test/HW Due	Review
2/5/2020	Inverse Trig Functions	Test/HW Due	4/14/2020	Putting it all Together	Test/HW Due
2/6/2020	Sinusoidal Curve Fitting	Probability Distributions	4/15/2020	Trig Applications	Correlations
2/7/2020	Solving Trig Applications	Binomial Distributions	4/16/2020	Trig Applications	Linear Regression
2/10/2020	Project, Quiz	Geometric & Poisson Distributions	4/17/2020	Review	NonLinear Regressions
2/11/2020	Project	Quiz	4/20/2020	Test/HW Due	Measures of Regressions
2/12/2020	Project, Review	Review	4/21/2020	Sequencing	Intervals for y
2/13/2020	Review	Test/HW Due	4/22/2020	Sequencing	Quiz
2/18/2020	Test/HW Due	Intro to Normal Distributions	4/23/2020 (DD)	Sequencing	Review
2/19/2020	Applications of Right Triangles	Normal Distributions	4/24/2020	Sequencing	Test/HW Due
2/20/2020	Fundamental Identities	Probabilities for Norm Distributions	4/27/2020	Quiz	Project
2/21/2020	Identities Cont...	Sampling Distributions	4/28/2020	Review	Project
2/24/2020	Verifying Trig Identities	M&M Lab	4/29/2020	Test/HW Due	Review
2/25/2020	Sum & Difference Identities	Quiz	4/30/2020	Review	Review
2/26/2020	Multiple Angle Identities	Review	5/1/2020	Review	Review
2/27/2020	Identities Cont...	Test/HW Due	5/4/2020	FINALS	FINALS
2/28/2020	Proofs	Confidence Intervals - Means	5/5/2020	FINALS	FINALS
3/2/2020	Proofs	Confidence Intervals - Means (Small)	5/6/2020	FINALS	FINALS
3/3/2020	Proofs	Confidence Intervals - Means (Small)	5/7/2020	Last Class Day	Last Class Day
3/4/2020	Solving Trig Equations	Confidence Intervals for Proportions	CONGRATS!! YOU MADE IT!!		