

Trigonometry – MATH 1316.001 – Course Syllabus – Fall 2022

Instructor: Karol Albus

Office: M110

Telephone: (806)-716-2543

Email (preferred method of contact): kalbus@southplainscollege.edu

Email Policy: All students at South Plains College are assigned a standardized SPC e-mail account. Although personal email addresses will continue to be collected, the assigned SPC e-mail account will be used as the official channel of communication for South Plains College. The Student Correspondence Policy can be found at www.southplainscollege.edu. To access the SPC student e-mail account, log in to portal.office.com. (Copied from SPC Student Guide) Since all students have an assigned SPC email, the instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures all correspondence from the instructor is received by the intended recipient.

Office hours: As listed or **by appointment**. Appointments are booked on Blackboard under Instructor Information

Monday	Tuesday	Wednesday	Thursday	Friday
1:30-3:30 pm (Lev Office M110)	9:30-11:30 am (Lev Office M110) 8:00-9:00 pm (Virtual by Zoom)			9:00-12:00 (Lev Office M110) Most Fridays

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.

Blackboard: Blackboard is the online course management system that will be utilized for this course. All access to course information and your instructor is through the Internet. This course syllabus, as well as all course materials can be accessed through Blackboard. Login at <https://southplainscollege.blackboard.com/>. The user name and password should be the same as the MySPC and SPC email.

User name: first initial, last name, and last 4 digits of the Student ID

Password: Original CampusConnect Pin No. (found on SPC acceptance letter)

Questions regarding Blackboard support may be emailed to blackboard@southplainscollege.edu or by telephone to 806-716-2180.

Course Supplies:

- **NOTE:** There is **NO book** required for this course. All materials are available on Blackboard.
- **Required:** Reliable Internet Access
- **Required:** Ability to print documents
- **Required:** Scientific Calculator. **TI-30XIIS** is inexpensive and user friendly. **Graphing calculators are not allowed.**
- **Required:** Notebook Paper, Pencils, and Erasers.
- **Required:** No book is required, but notes will be posted on Blackboard and **you will be expected to print them and complete them in class.**
- **Optional:** The adopted textbook would only be used for a reference. We will not use it for coursework.
- **Suggested:** Large 3-ring binder, dividers, hole punch

Methods of Learning Assessment:

Homework/Quizzes:

- There will be an assignment for each lesson. Work the problems early enough to seek help if needed.
- Homework will be due at the beginning of the next class period.
- Quizzes will be given daily. **Make-up quizzes will not be given.**
- Grades on the homework will be worth 50 points of a daily grade and quizzes will be worth the other 50 points. This will be a total of 100 per daily grade. There will usually be a grade each class day. **Late assignments will not be accepted**
- At the end of the semester the lowest 2 daily grades will be dropped.
- All students are encouraged to keep a binder which will be used as a reference and study guide.

Exams:

- 3 Unit Exams
- Final Exam is comprehensive. There are no exemptions for the final.
- If you are going to miss an exam contact your instructor immediately (preferably prior to the exam). Make up exams are very rare and only provided under extreme, documented circumstances.
- Once you begin an exam, you will not be able to leave the classroom until the exam is submitted for grading.

Grading Formula:

Enrollment in this course does not guarantee advancement to the next course level. The final responsibility for learning lies with the student. The final letter grade for this course will be based on the following:

3 Exams 20% each	60%
Assignment/Quizzes.....	20%
Final Exam	20%

Final Grade Determination: A 90-100 B 80-89 C 70-79 D 60-69 F
59 or below

Classroom Etiquette:

- **Class attendance is expected, not optional.** Leaving early and being late will be considered ½ absence. You may be dropped from this course with a grade of X or F if you exceed five absences (**for any reason**).
- Preparation for class including attempting the previous class assignment is essential to success.
- NO tobacco use of any form is allowed in the classroom.
- All electronic communication devices are to be silenced and put away during class.

Resources:

- **Blackboard:** The course syllabus, notes, **videos of all lecture topics**, assignments, answer keys, quiz solutions, and reviews will be available on Blackboard.
- **I am available to help you!** Feel free to come by during my office hours, request a meeting on zoom or in office, or email me at kalbus@southplainscollege.edu. You can book an appointment in Blackboard under Instructor Information.
- We have **an Academic Coach!** Beau Dormand was sitting in your position last Spring and can help you become successful also!.He will be available to you at various times and locations – see the Instructor Information page in Blackboard.
- **SPC Tutors:** Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn more about how to book an appointment, view the tutoring schedule, get to know the tutors, and view tutoring locations.
<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>
- **Tutor.com:** You also have 180 FREE minutes of tutoring with tutor.com each week, and your hours reset every Monday morning. Log into Blackboard, click on the tutor.com link on the left-hand tool bar and grab a session with a tutor. You can access tutor.com tutors during the following times:
Monday – Thursday: 8pm-8am
6pm Friday – 8am Monday morning

Withdrawal Policy: As required by Texas Education Code Section 51.907, all new students who enroll in a Texas public institution of higher education for the first time beginning with the 2007 fall semester and thereafter, are limited to six course drops throughout their entire undergraduate career. All course drops, including those initiated by students or faculty and any course a transfer student has dropped at another institution, automatically count toward the limit. After six grades of W are received, students must receive grades of A, B, C, D, or F in all courses. There are other exemptions from the six-drop limit and students should consult with a Counselor/Educational Planner before they drop courses to determine these exemptions. Students receiving financial aid must get in touch with the Financial Aid Office before withdrawing from a course. It is the student’s responsibility to drop. Excessive absences (3 consecutive or 4 total) will result in an administrative withdrawal with a Grade of X or F. If you plan to withdraw, please consult with the instructor immediately.

Note: The last day to drop with a grade of W is Thursday, December 1, 2022.

South Plains College
Common Course Syllabus: MATH 1316
Revised August 2022

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1316

Course Title: Plane Trigonometry

Available Formats: conventional, hybrid, internet and ITV

Campuses: Levelland, Reese, Lubbock Center and Dual Credit

Course Description: In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Prerequisite: Minimum score of 350 on the TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 1314.

Credit: 3 **Lecture:** 3 **Lab:** 0

Textbook: *Trigonometry*, Dugopolski, 2019, 5th Edition, Prentice Hall/Pearson Education

Supplies: Please see the instructor's course information sheet for specific supplies.

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Core Curriculum Objectives addressed:

- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

Student Learning Outcomes: Upon completion of this course and receiving a passing grade, the student will be able to:

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
2. Graph trigonometric functions and their transformations.
3. Prove trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Use the concepts of trigonometry to solve applications.

Student Learning Outcomes Assessment: A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

Course Evaluation: There will be departmental final exam questions given by all instructors.

Attendance/Student Engagement Policy: Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. If the student fails to meet these

minimum requirements, the instructor may remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

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. (*SPC General Catalog*)

Plagiarism and cheating are not tolerated in this course. Under the policies of South Plains College, punishment for cheating may include no credit (failing) on the assignment, quiz, exam, or the course.

COVID Syllabus Statement: If you are experiencing any of the following symptoms, please do not attend class and either seek medical attention or test for COVID-19: Cough, shortness of breath, difficulty breathing, Fever or chills, Muscles or body aches, Vomiting or diarrhea, New loss of taste and smell. Please also notify DeEtte Edens, BSN, RN, Associate Director of Health & Wellness, at dedens@southplainscollege.edu or 806-716-2376. Proof of a positive test is required. A home test is sufficient but students must submit a photo of the positive result. The date of test must be written on the test result and an ID included in the photo. If tested elsewhere (clinic, pharmacy, etc.), please submit a copy of the doctor's note or email notification. Results may be emailed to DeEtte Edens, BSN, RN at dedens@southplainscollege.edu. A student is clear to return to class without further assessment from DeEtte Edens, BSN, RN if they have completed the 5-day isolation period, symptoms have improved, and they are without fever for 24 hours without the use of fever-reducing medication. Students must communicate with DeEtte Edens, BSN, RN prior to their return date if still symptomatic at the end of the 5-day isolation.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect on the part of the student and the instructor. Neither instructor nor student should be subject to others' behavior that is rude, disruptive, intimidating, aggressive, or demeaning. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

Diversity Statement: In this class, the teacher will establish and support an environment that values and nurtures individual and group difference and encourages engagement and interaction. Understanding and respecting multiple experiences and perspectives will serve to challenge and stimulate all of us to learn about others, about the larger world and about ourselves. By promoting diversity and intellectual exchange, we will not only mirror society as it is, but also model society as it should and can be.

Disabilities Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland (Student Health & Wellness Office) 806-716-2577, Lubbock Centers (located at the Lubbock Downtown Center) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Non-Discrimination Statement: South Plains College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following person has been designated to handle inquiries regarding the non-discrimination policies: Vice President for Student Affairs, South Plains College, 1401 College Avenue, Box 5, Levelland, TX 79336. Phone number 806-716-2360.

Title IX Pregnancy Accommodations Statement: If you are pregnant, or have given birth within six months, Under Title IX you have a right to reasonable accommodations to help continue your education. To [activate](#) accommodations you must submit a Title IX pregnancy accommodations request, along with specific medical documentation, to the Health and Wellness Center. Once approved, notification will be sent to the student and instructors. It is the student's responsibility to work with the instructor to arrange accommodations. Contact the Health and Wellness Center at 806-716-2529 or [email dburleson@southplainscollege.edu](mailto:dburleson@southplainscollege.edu) for assistance.

Campus Concealed Carry Statement: Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations and Frequently Asked Questions, please refer to the Campus Carry page at: <http://www.southplainscollege.edu/campuscarry.php>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.

SPC Bookstore Price Match Guarantee Policy: If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by* Amazon, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

Trigonometry Tentative Course Outline - Fall 2022 MATH 1316.001 (M/W 8:00-9:15)

Week	Date	Lesson / Tentative Assignment	What is Due?
1	Mon Aug 29	Course Introduction and Tips for Success Assignment 1.1: Arithmetic and Algebra Refresher	
	Wed Aug 31	Assignment 1.2: Angles in Degrees & Radians, Arc Length, and Area	Asgmt 1.1, Quiz 1.1
2	Mon Sept 5	<i>Labor Day Holiday – No Class</i>	
	Wed Sept 7	Assignment 1.3: Trigonometric Functions	Asgmt 1.2, Quiz 1.2
3	Mon Sept 12	Assignment 1.4: Cofunctions, DMS, and More Trigonometric Functions	Asgmt 1.3, Quiz 1.3
	Wed Sept 14	Assignment 1.5: Solving Right Triangle	Asgmt 1.4, Quiz 1.4
4	Mon Sept 19	Assignment 1.6: Linear & Angular Velocity	Asgmt 1.5, Quiz 1.5
	Wed Sept 21	Unit 1 Review	Asgmt 1.6, Quiz 1.6
5	Mon Sept 26	Unit 1 Exam (20%) Assignment 1.7	Unit 1 Review
	Wed Sept 28	Assignment 2.1: Identities & Verifications	Asgmt 1.7
6	Mon Oct 3	Assignment 2.2: More Verifications	Asgmt 2.1, Quiz 2.1
	Wed Oct 5	Assignment 2.3: Sum & Difference Identities for Cosine	Asgmt 2.2, Quiz 2.2
7	Mon Oct 10	Assignment 2.4: Sum & Difference Identities for Sine & Tangent	Asgmt 2.3, Quiz 2.3
	Wed Oct 12	Assignment 2.5: Double Angle Identities	Asgmt 2.4, Quiz 2.4
	Fri Oct 14	<i>Fall Break – No Office Hours</i>	
8	Mon Oct 17	Assignment 2.6: Half Angle Identities (possibly add power reducing)	Asgmt 2.5, Quiz 2.5
	Wed Oct 19	Assignment 2.7: Graphing Sine and Cosine	Asgmt 2.6, Quiz 2.6
9	Mon Oct 24	Assignment 2.8: Graphing Secant, Cosecant, Tangent and Cotangent	Asgmt 2.7, Quiz 2.7
	Wed Oct 26	Unit 2 Exam Review	Asgmt 2.8, Quiz 2.8
10	Mon Oct 31	Unit 2 Exam (20%)	Unit 2 Review
	Wed Nov 2	Assignment 3.1: Inverse Trig Functions and Solving Basic Trig Equations	
11	Mon Nov 7	Assignment 3.2: Solving Trig Equations Involving Compositions and Quadratic in Type	Asgmt 3.1, Quiz 3.1
	Wed Nov 9	Assignment 3.3: Solving Advanced Trig Equations	Asgmt 3.2, Quiz 3.2
12	Mon Nov 14	Assignment 3.4: Law of Sines	Asgmt 3.3, Quiz 3.3
	Wed Nov 16	Assignment 3.5: Law of Cosines	Asgmt 3.4, Quiz 3.4
13	Mon Nov 21	Unit 3 Exam Review	Asgmt 3.5, Quiz 3.5
	Wed Nov 23	<i>Thanksgiving Holiday – No Class</i>	
14	Mon Nov 28	Unit 3 Exam (20%)	Unit 3 Review
	Wed Nov 30	Assignment 4.1: An Introduction to Vectors Unit	
	Thur Dec 1	<i>Last day to withdraw from a course with a grade of W</i>	
15	Mon Dec 5	Assignment 4.2: Applications of Vectors	Asgmt 4.1, Quiz 4.1
	Wed Dec 7	Comprehensive Final Review	Asgmt 4.2, Quiz 4.2
16	Mon Dec 12	Comprehensive Final Exam 8:00-10:00	