

Trigonometry – MATH 1316.001 – Course Syllabus – Spring 2021

Instructor: Karol Albus **Email:** kalbus@southplainscollege.edu (preferred method of contact)
Office: M110 **Telephone:** (806)-716-2543
Office hours: As listed or by appointment.

| Monday | Tuesday | Wednesday | Thursday | Friday |
|--|--|---|-----------------|---|
| 9:30-10:00, 1:00-2:30 (Levelland Office M110) | 9:30-12:30 (Zoom) 2::45-3:45 (Levelland Office M110) | 9:30-10:00 (Zoom) 1:00-2:30 (Levelland Office M110) | No office hours | 9:00-12:00 (Levelland Office M110) 1/22, 1/29, 2/5, 2/19, 2/26, 3/26, 4/23 |

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.

Use of Student Email: The College provides a free, official email account to all students to ensure efficient and secure communications. Students will be required to use their college-issued email to communicate with their instructors and all other college personnel, so it is easy to distinguish a student’s email from spam. The College expects that students will utilize their college email to send and receive communications and will read email on a frequent and consistent basis.

Course Supplies:

- **Required:** Reliable Internet Access
- **Required:** Ability to print documents
- **Required:** Scientific Calculator. **Suggested TI-30XIIS.** They are inexpensive and user friendly.
- Graphing calculators are **not allowed.**
- **Required:** Large 3-ring binder, dividers, notebook paper, hole punch, pencils, and erasers.
- **Printed Notes:** No book is required, but notes will be posted on Blackboard and **you will be expected to print them and complete them in class.** They will also be a requirement in the binder check.
- **Optional:** The adopted textbook would only be used for a reference. We will not use it for coursework.

Homework/Quizzes/ Binder Checks:

- Homework will be assigned for each lesson. Work the problems early enough to seek help if needed.
- Completed Notes and Homework will be due in the form of one PDF document uploaded in Blackboard. **Late homework will not be accepted. Not turning in the homework and notes is equivalent to an absence.**
- Quizzes will be given on most days that you attend class. **Make-up quizzes will not be given.**
- All students will keep a binder which will be used as a reference and study guide.
- The binder will be graded on exam days or randomly by the instructor during the semester.

Exams:

- 4 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:

| | |
|-------------------------------|-----|
| 4 Tests 15% each..... | 60% |
| Homework/Quizzes/Binder | 20% |
| Final Exam | 20% |

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

Classroom Etiquette:

- **Masks and seating charts are a requirement.**
- **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 viewing videos, completing notes and attempting homework 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, assignments, answer keys, quiz solutions, and reviews will be available on Blackboard. This is also where you will find the links to turn in everything that will be graded. There will be no paper exchanged this semester.
- Free tutoring is available in M116 on the Levelland campus by appointment as well as live virtual tutoring.
- I am available to help you! Feel free to come by during my office hours, meet me on zoom during virtual office hours, or email me at kalbus@southplainscollege.edu.

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 (4 consecutive or 5 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, April 29, 2021

HOW TO SIGN UP FOR FREE TUTORING

All tutoring will be one-on-one, appointment based 45-minute sessions. These sessions will not be able to go longer, unless a student has booked back-to-back sessions. This is strict time limit is to allow our tutors to provide a safe, sanitized environment for students. All COVID-19 safety requirements set forth by South Plains College administration must be followed by students in order to receive face-to-face tutoring. Face masks will be required for the tutor and the student. Students must fill out a COVID screening form prior to receiving tutoring.

Students may book face-to-face or live, virtual sessions. Students may book a face-to-face session with no advanced notice needed, so long as there is an appointment slot open. This will allow students to still have the chance to “walk-in”. Students may book appointments up to 30 days prior to the day and time they wish to schedule.

Live virtual sessions with SPC tutors will need to be booked at least 4 hours in advance to allow the tutor time to ensure he/she has access to all needed equipment.

To schedule a tutoring session:

Students will go to the SPC Tutoring webpage here

<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>, or go to the SPC webpage, click on Student Services, click on Tutoring.

There will be a list of dropdown links on the webpage that will allow the student to choose which center he/she would like to receive tutoring at or if he/she would like to book a live virtual session. The student will click the dropdown, then click on the Booking link. He/she will need to login with his/her SPC email and password.

Once at the Booking page, the student will choose which subject he/she would like tutoring in. Students may need to scroll on the course tiles to see all courses available.

Once the subject is selected, the student will scroll down and select a date from the calendar, then a time on the right-hand side. If the student wishes to meet with a specific tutor, he/she may select that tutor in the dropdown above the times. If not, Bookings will auto assign the tutor.

At the bottom of the page, the student will need to put his/her name, email address (SPC email), and phone number. Notes are optional. They **MUST** select or type in the specific course he/she wishes to receive tutoring in.

Click “book” and done! The student will receive a confirmation email of the Booking. If it is a live virtual session, a tutor will schedule a Meeting Space for the student or reach out to the student with instructions.

South Plains College
Common Course Syllabus: MATH 1316
Revised January 2021

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1316

Course Title: Plane Trigonometry

Available Formats: conventional/flex and ITV

Campuses: Levelland, Reese, 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 TSIA, 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 (Optional for some instructors)

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 effort are the most important activities for success in this course. The instructor maintains records of the student's engagement throughout the semester. The student will be allowed to miss twenty percent (20%) of class assignments for the semester, *for any reason*. Should this number be exceeded, the instructor has the right to drop the student with a grade of F or an X, depending on the instructor's discretion.

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.

COVID Syllabus Statement: It is the policy of South Plains College for the Spring 2021 semester that as a condition of on-campus enrollment, all students are required to engage in safe behaviors to avoid the spread of COVID-19 in the SPC community. Such behaviors specifically include the requirement that all students properly wear CDC-compliant face coverings while in SPC buildings including in classrooms, labs, hallways, and restrooms. Failure to comply with this policy may result in dismissal from the current class session. If the student refuses to leave the classroom or lab after being dismissed, the student may be referred to the Dean of Students on the Levelland campus or the Dean/Director of external centers for Student Code of Conduct Violation. Students who believe they have been exposed or may be COVID-19 positive, must contact Health Services, DeEtte Edens, BSN, RN at (806) 716-2376 or dedens@southplainscollege.edu. 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. 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.

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 differences 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.

Disability 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, Reese Center (Building 8) 806-716-4675, or Plainview Center (Main Office) 806-716-4302 or 806-296-9611.

Nondiscrimination Policy: 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 Director of Health and Wellness. 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 Director of Health and Wellness at 806-716-2362 or [email cgilster@southplainscollege.edu](mailto:cgilster@southplainscollege.edu) for assistance.

Campus Concealed Carry: 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.

Tentative Course Calendar

| Week | Day | Date | Topic |
|------|------|-----------|---|
| 1 | Mon | Jan 18 | No Class – Martin Luther King Holiday |
| | Wed | Jan 20 | Syllabus, Assignment 1.1: Arithmetic and Algebra Refresher |
| 2 | Mon | Jan 25 | Assignment 1.2: Angles in Degrees & Radians, Arc Length, and Area |
| | Wed | Jan 27 | Assignment 1.3: Trigonometric Functions |
| 3 | Mon | Feb 1 | Assignment 1.4: Cofunctions, DMS, and More Trigonometric Functions |
| | Wed | Feb 3 | Assignment 1.5: Solving Right Triangles |
| 4 | Mon | Feb 8 | Assignment 1.6: Linear & Angular Velocity |
| | Wed | Feb 10 | Unit 1 Exam (15%) |
| 5 | Mon | Feb 15 | Assignment 2.1: Identities & Verifications |
| | Wed | Feb 17 | Assignment 2.2: More Verifications |
| 6 | Mon | Feb 22 | Assignment 2.3: Sum & Difference Identities for Cosine |
| | Wed | Feb 24 | Assignment 2.4: Sum & Difference Identities for Sine & Tangent |
| 7 | Mon | Mar 1 | Assignment 2.5: Double Angle Identities |
| | Wed | Mar 3 | Assignment 2.6: Half Angle Identities |
| 8 | Mon | Mar 8 | Unit 2 Exam Review |
| | Wed | Mar 10 | Unit 2 Exam (15%) |
| | | Mar 15-19 | No class – Spring Break |
| 9 | Mon | Mar 22 | Assignment 3.1: Graphing Sine and Cosine |
| | Wed | Mar 24 | Assignment 3.2: Graphing Secant, Cosecant, Tangent and Cotangent |
| 10 | Mon | Mar 29 | Assignment 3.3: Inverse Trig Functions and Solving Basic Trig Equations |
| | Wed | Mar 31 | Assignment 3.4: Solving Trig Equations Involving Compositions and Quadratic in Type |
| | Fri | Apr 2 | No class / Office Hours– Easter holiday |
| 11 | Mon | April 5 | Assignment 3.5: Solving Advanced Trig Equations |
| | Wed | April 7 | Unit 3 Exam Review |
| 12 | Mon | Apr 12 | Unit 3 Exam (15%) |
| | Mon | Apr 12 | Online registration opens for Summer and Fall classes |
| | Wed | Apr 14 | Assignment 4.1: Law of Sines |
| 13 | Mon | Apr 19 | Assignment 4.2: Law of Cosines |
| | Wed | Apr 21 | Assignment 4.3: An Introduction to Vectors |
| 14 | Mon | Apr 26 | Assignment 4.4: Applications of Vectors |
| | Wed | Apr 28 | Unit 4 Exam Review |
| | Thur | Apr 29 | Last day to drop a course with a grade of W |
| 15 | Mon | May 3 | Unit 4 Exam (15%) |
| | Wed | May 5 | Final Exam Review |
| 16 | Mon | May 10 | Final Exam 8:00-10:00 |

