South Plains College Mathematics Department

Dual Credit Online College Algebra – MATH 1314.007 and 1314.009

Course Syllabus – Spring 2024 – revised January 2024

Instructor: Karol Albus **Office:** M110 **Telephone:** (806)-716-2543

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

Email Policy: 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 can be made by emailing the instructor with 3 times that you would be available for a Zoom meeting. The instructor will respond with a Zoom meeting invitation for one of your times.

Monday	Tuesday	Wednesday	Thursday	Friday
9:30-10:00 am 2:15-4:15 pm (Lev Office M110)	8:00-9:00 am (M110)	9:30-10:00 am (M110)	8:00-9:00 am (M110)	8:00-11:00 (M110)

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

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 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.
- **Requir**ed: 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, **graph paper (available to print from blackboard)**, 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**.
- **Optional:** The adopted textbook would only be used for a reference. We will not use it for coursework.

Assignments/Quizzes

- Homework will be assigned at each class. Work the problems early enough to seek help if needed.
- Notes/Homework are due at the beginning of the next class. **Late homework will not be accepted. Absence = 0.**
- Quizzes will be given most days. **Make-up quizzes will not be given. Absence = 0.**
- At the end of the semester the lowest 4 grades (assignment/quiz) will be dropped.
- All students will keep a binder which will be used as a reference and study guide.
- There is no "extra-credit" offered in this course.

Exams:

- 4 Unit Exams, and a Final Exam
- **Final Exam is comprehensive and departmental. 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. You will need to complete the exam prior to the next meeting of class when graded exams are distributed.
- 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%
Assignment/Quizzes..... 15%
Final Exam..... 25%

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

Classroom Etiquette:

- Preparation for class (including printing notes and completing homework) is to be done before (not during) the lecture.
- NO tobacco use of any form is allowed in the classroom.
- Discussion **of course material** among students is encouraged during class when it will not interfere with other students learning or concentrating. We often have time to work on assignments in class.
- All electronic communication devices are to be silenced and put away during class.

(No extra credit is provided in this course. Deadlines are not flexible.)

A current average for the course will be found in Blackboard. You should check your grades regularly. I will post grades on an assignment a few days after the deadline for that assignment. **Please note that the weight of the course grade is on exams.** They are VERY important. **ALL of the other work is just a means by which to get ready for those exams.**

Resources:

- **Your instructor!** I am available to you by email, on campus during office hours, or by appointment on Zoom. When asking a question via email, please take a photo or scan of the work you have done and attach that to your question. This will save so much time and will be much more beneficial to you. It is often as important to know what you are doing RIGHT as it is finding an error you may have made.
- **Blackboard** The course syllabus, notes, videos, assignments, and assignment answers, will all be available on Blackboard.
- **Free SPC Tutoring** 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, and view tutoring locations.

http://www.southplainscollege.edu/explorepprograms/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 tools option from the left-hand menu bar. Click on the Tutor.com link and you will automatically be logged in for free tutoring. You may access tutor.com tutors during the following times:

Monday – Thursday: 8pm-8am
6pm Friday – 8am Monday morning

For questions regarding tutoring, please email tutoring@southplainscollege.edu or call 806-716-2538.

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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 may 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 25, 2024.

South Plains College
Common Course Syllabus: MATH 1314
Revised August 2023

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, Downtown 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.

Student Code of Conduct Policy: Any successful learning experience requires mutual respect from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior**.** 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.

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit https://www.southplainscollege.edu/syllabusstatements/.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: https://www.southplainscollege.edu/emergency/covid19-faq.php.
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.

College Algebra Tentative Course Outline - Spring 2024

MATH 1314.007 (T/R 9:00-10:45)

Week	Date	Lesson / Tentative Assignment	What is Due?
	Mon Jan 15	No class – Martin Luther King Holiday	
1	Tues Jan 16	Introduction Assignment 1.1: Linear & Rational Equations	
	Thurs Jan 18	Assignment 1.2: Linear Applications	Asgmt 1.1 Quiz 1.1
2	Tues Jan 23	Assignment 1.3: Complex Numbers; Quadratic Equations Part 1	Asgmt 1.2 Quiz 1.2
	Thurs Jan 25	Assignment 1.4: Quadratic Equations Part 2, Radical Equations	Asgmt 1.3 Quiz 1.3
3	Tues Jan 30	Assignment 1.5: Other Types of Equations; Linear and Absolute Value Inequalities	Asgmt 1.4 Quiz 1.4
	Thurs Feb 1	Unit 1 Review	Asgmt 1.5 Quiz 1.5
4	Tues Feb 6	**Unit 1 Exam (15%)**	**Unit 1 Review**
	Thurs Feb 8	Assignment 2.1: Function Notation and Graphs	
5	Tues Feb 13	Assignment 2.2: Linear Functions and Slope	Asgmt 2.1 Quiz 2.1
	Thurs Feb 15	Assignment 2.3: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions	Asgmt 2.2 Quiz 2.2
6	Tues Feb 20	Assignment 2.4: Inverse Functions, Quadratic Functions	Asgmt 2.3 Quiz 2.3
	Thurs Feb 22	Assignment 2.5: Long Division, Synthetic Division	Asgmt 2.4 Quiz 2.4
7	Tues Feb 27	Unit 2 Review	Asgmt 2.5 Quiz 2.5
	Thurs Feb 29	**Unit 2 Exam (15%)**	**Unit 2 Review**
8	Tues Mar 5	Assignment 3.1: Polynomial Functions & Their Graphs, Roots of Polynomials	
	Thurs Mar 7	Assignment 3.2: Rational Functions & Their Graphs	Asgmt 3.1 Quiz 3.1
	Mar 11-15	Spring Break	
9	Tues Mar 19	3.1, 3.2 Refresher	Lab Assignment
	Thurs Mar 21	Assignment 3.3: Polynomial & Rational Inequalities	Asgmt 3.2 Quiz 3.2
10	Tues Mar 26	Assignment 3.4: Exponential Functions; Logarithmic Functions	Asgmt 3.3 Quiz 3.3
	Thurs Mar 28	Assignment 3.5: Properties of Logarithms	Asgmt 3.4 Quiz 3.4
	Fri Mar 29	Easter Break – All campuses closed	
11	Tues Apr 2	Assignment 3.6: Exponential & Logarithmic Equations	Asgmt 3.5 Quiz 3.5
	Thurs Apr 4	Unit 3 Review	Asgmt 3.6 Quiz 3.6
12	Tues Apr 9	**Unit 3 Exam (15%)**	**Unit 3 Review**
	Thurs Apr 11	Assignment 4.1: 2x2 Systems; 3x3 Systems	
	Fri Apr 12	Online Registration Opens	
13	Tues Apr 16	Assignment 4.2: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities	Asgmt 4.1 Quiz 4.1
	Thurs Apr 18	Assignment 4.3: Solving Systems of Equations by Gauss Jordan Elimination	Asgmt 4.2 Quiz 4.2
14	Tues Apr 23	Assignment 4.4: Solving Systems of Equations by Determinants & Cramer's Rule	Asgmt 4.3 Quiz 4.3
	Thurs Apr 25	Unit 4 Review	Asgmt 4.4 Quiz 4.4
	Thurs Apr 25	Last day to drop a course with a grade of W	
15	Tues Apr 30	**Unit 4 Exam (15%)**	**Unit 4 Review**
	Thurs May 2	Comprehensive Final Exam Review	
16	Tues May 7	**MATH 1314.007 Final Exam (20%) 8:00-10:00**	

College Algebra Tentative Course Outline - Spring 2024 Thurs

MATH 1314.009 (M/W 12:30-2:15)

Week	Date	Lesson / Tentative Assignment	What is Due?
1	Mon Jan 15	No class – Martin Luther King Holiday	
	Wed Jan 17	Introduction Assignment 1.1: Linear & Rational Equations	
2	Mon Jan 22	Assignment 1.2: Linear Applications	Asgmt 1.1 Quiz 1.1
	Wed Jan 24	Assignment 1.3: Complex Numbers; Quadratic Equations Part 1	Asgmt 1.2 Quiz 1.2
3	Mon Jan 29	Assignment 1.4: Quadratic Equations Part 2, Radical Equations	Asgmt 1.3 Quiz 1.3
	Wed Jan 31	Assignment 1.5: Other Types of Equations; Linear and Absolute Value Inequalities	Asgmt 1.4 Quiz 1.4
4	Mon Feb 5	Unit 1 Review	Asgmt 1.5 Quiz 1.5
	Wed Feb 7	**Unit 1 Exam (15%)**	**Unit 1 Review**
5	Mon Feb 12	Assignment 2.1: Function Notation and Graphs	
	Wed Feb 14	Assignment 2.2: Linear Functions and Slope	Asgmt 2.1 Quiz 2.1
6	Mon Feb 19	Assignment 2.3: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions	Asgmt 2.2 Quiz 2.2
	Wed Feb 21	Assignment 2.4: Inverse Functions, Quadratic Functions	Asgmt 2.3 Quiz 2.3
7	Mon Feb 26	Assignment 2.5: Long Division, Synthetic Division	Asgmt 2.4 Quiz 2.4
	Wed Feb 28	Unit 2 Review	Asgmt 2.5 Quiz 2.5
8	Mon Mar 4	**Unit 2 Exam (15%)**	**Unit 2 Review**
	Wed Mar 6	Assignment 3.1: Polynomial Functions & Their Graphs, Roots of Polynomials	
	Mar 11-15	Spring Break	
9	Mon Mar 18	Assignment 3.2: Rational Functions & Their Graphs	Asgmt 3.1 Quiz 3.1
	Wed Mar 20	Assignment 3.3: Polynomial & Rational Inequalities	Asgmt 3.2 Quiz 3.2
10	Mon Mar 25	Assignment 3.4: Exponential Functions; Logarithmic Functions	Asgmt 3.3 Quiz 3.3
	Wed Mar 27	Assignment 3.5: Properties of Logarithms	Asgmt 3.4 Quiz 3.4
	Fri Mar 29	Easter Holiday – all campuses closed	
11	Mon Apr 1	Assignment 3.6: Exponential & Logarithmic Equations	Asgmt 3.5 Quiz 3.5
	Wed Apr 3	Unit 3 Review	Asgmt 3.6 Quiz 3.6
12	Mon Apr 8	**Unit 3 Exam (15%)**	**Unit 3 Review**
	Wed Apr 10	Assignment 4.1: 2x2 Systems; 3x3 Systems	
	Fri Apr 12	Online registration opens	
13	Mon Apr 15	Assignment 4.2: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities	Asgmt 4.1 Quiz 4.1
	Wed Apr 17	Assignment 4.3: Solving Systems of Equations by Gauss Jordan Elimination	Asgmt 4.2 Quiz 4.2
14	Mon Apr 22	Assignment 4.4: Solving Systems of Equations by Determinants & Cramer's Rule	Asgmt 4.3 Quiz 4.3
	Wed Apr 24	Unit 4 Review	Asgmt 4.4 Quiz 4.4
	Thurs Apr 25	Last day to drop a course with a grade of W	
15	Mon Apr 29	**Unit 4 Exam (15%)**	**Unit 4 Review**
	Wed May 1	Comprehensive Final Exam Review	
16	Wed May 8	**MATH 1314.009 Final Exam (20%) 10:15-12:15**	