South Plains College Mathematics Department
College Algebra – MATH 1314.008 M/W 2:30-4:15
Course Syllabus – Spring 2023 – revised January 2023

Instructor: Karol Albus:

Office M110 **Email:** kalbus@southplainscollege.edu (preferred method of contact) **Phone:** (806)-716-2543

Office hours: As listed or by appointment.

Monday	Tuesday	Wednesday	Thursday	Friday
9:30-10:00 am (Lev Office M110)	8:00-10:00 am (M110)	9:30-10:00 am 1:15-2:15 pm (M110)	8:00-9:00 pm ZOOM	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 **in class**.

Use of Student Email: The College provides a free, official email account to all students to ensure efficient and secure communications between you and the College. Students will be required to use their college-issued email address 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 addresses to send and receive communications with college personnel and will read email on a frequent and consistent basis.

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.
- **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.

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 2 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.
- 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.
- All electronic communication devices are to be silenced and put away during class.

Resources:

- **Your instructor!** I am available to you by Blackboard email, during Zoom office hours virtually, on campus during office hours, or by appointment. 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. Email me at kalbus@southplainscollege.edu.
- **Blackboard** The course syllabus, notes, lecture videos, assignments, and assignment answers, quizzes, quiz solutions, and reviews will all be available on 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! There are math tutors available in M116. 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/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 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

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 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 27, 2023.

South Plains College
Common Course Syllabus: MATH 1314
Revised December 2022

Department: Mathematics, Engineering, and Computer Science

Discipline: Mathematics

Course Number: MATH 1314

Course Title: College Algebra

Available Formats: conventional, hybrid, internet, and ITV

Campuses: Levelland, Downtown Center, Plainview Center, and Dual Credit

Course Description: In-depth study and applications of polynomial, rational, radical, exponential and logarithmic functions, and systems of equations using matrices. Additional topics such as sequences, series, probability, and conics 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, a successful completion with a grade of 'C' or better in MATH 0320, or successful completion of NCBM-0114.

Credit: 3 **Lecture:** 3 **Lab:** 1

Textbook: *College Algebra with Intermediate Algebra: A Blended Course*, Beecher, Penna, Johnson, and Bittinger, 2018, 1st 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. Demonstrate and apply knowledge of properties of functions, including domain and range, operations, compositions, and inverses.
2. Recognize and apply polynomial, rational, radical, exponential and logarithmic functions and solve related equations.
3. Apply graphing techniques.
4. Evaluate all roots of higher degree polynomial and rational functions.
5. Recognize, solve and apply systems of linear equations using matrices.

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.

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.

South Plains College policies concerning diversity, disabilities, non-discrimination, Title IX Pregnancy Accommodations, and Campus Concealed Carry Statements can be found here: 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 2023
MATH 1314.008 (M/W 2:30-4:15)

Week	Date	Topic	
1	Mon Jan 16	Martin Luther King Holiday – No classes	
	Wed Jan 18	Introduction to Course, Syllabus Highlights, Preliminary Assessment	
2	Mon Jan 23	1.1: Linear & Rational Equations	
	Wed Jan 25	1.2: Linear Applications	Asgmt 1.1 Quiz 1.1
3	Mon Jan 30	1.3: Complex Numbers; Quadratic Equations Part 1	Asgmt 1.2 Quiz 1.2
	Wed Feb 1	1.4: Quadratic Equations Part 2, Radical Equations	Asgmt 1.3 Quiz 1.3
4	Mon Feb 6	1.5: Other Types of Equations; Linear and Absolute Value Inequalities	Asgmt 1.4 Quiz 1.4
	Wed Feb 8	Unit 1 Review	Asgmt 1.5 Quiz 1.5
5	Mon Feb 13	**Unit 1 Exam (15%)**	Unit 1 Review
	Wed Feb 15	2.1: Function Notation and Graphs	
6	Mon Feb 20	2.2: Linear Functions and Slope	Asgmt 2.1 Quiz 2.1
	Wed Feb 22	2.3: Distance, Midpoint, & Circles, Combinations of Functions, Composite Functions	Asgmt 2.2 Quiz 2.2
7	Mon Feb 27	2.4: Inverse Functions, Quadratic Functions	Asgmt 2.3 Quiz 2.3
	Wed Mar 1	2.5: Long Division, Synthetic Division, Roots of Polynomials	Asgmt 2.4 Quiz 2.4
8	Mon Mar 6	Unit 2 Review	Asgmt 2.5 Quiz 2.5
	Wed Mar 8	**Unit 2 Exam (15%)**	Unit 2 Review
	Mar 13-16	Spring Break	
9	Mon Mar 20	3.1: Polynomial Functions & Their Graphs	
	Wed Mar 22	3.2: Rational Functions & Their Graphs	Asgmt 3.1 Quiz 3.1
10	Mon Mar 27	3.3: Polynomial & Rational Inequalities, Compound Interest	Asgmt 3.2 Quiz 3.2
	Wed Mar 29	3.4: Exponential Functions; Logarithmic Functions	Asgmt 3.3 Quiz 3.3
11	Mon Apr 3	3.5: Properties of Logarithms, Solving Exponential Equations Part 1	Asgmt 3.4 Quiz 3.4
	Wed Apr 5	3.6: Solving Exponential Equations Part 2, Solving Logarithmic Equations	Asgmt 3.5 Quiz 3.5
	Fri Apr 7	Easter Holiday – No Office Hours	
	Sun Apr 9	Easter	
12	Mon Apr 10	Unit 3 Review	Asgmt 3.6 Quiz 3.6
	Wed Apr 12	**Unit 3 Exam (15%)**	Unit 3 Review
13	Mon Apr 17	4.1: 2x2 Systems; 3x3 Systems	
	Wed Apr 19	4.2: Nonlinear Systems; Graphing Inequalities & Systems of Inequalities, Graphing Nonlinear Systems of Inequalities	Asgmt 4.1 Quiz 4.1
14	Mon Apr 24	4.3: Solving Systems of Equations by Gauss Jordan Elimination	Asgmt 4.2 Quiz 4.2
	Wed Apr 26	4.4: Solving Systems of Equations by Determinants & Cramer's Rule	Asgmt 4.3 Quiz 4.3
	Apr 27	Last Day to drop a course with a grade of W	
15	Mon May 1	**Unit 4 Exam (15%)**	Asgmt 4.4 Unit 4 Review
	Wed May 3	**Comprehensive Final Exam Review**	
	May 8	**Final Exam (25%) 1:00-3:00 pm**	