

**South Plains College  
MATH 1314**

**Department:** Mathematics, Engineering, and Computer Science

**Discipline:** Mathematics

**Course Number:** MATH 1314

**Course Title:** College Algebra

**Format:** conventional Face to Face only.

**Campus:** Levelland

**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: NO TEXTBOOK REQUIRED FOR THIS COURSE!**

However a reference textbook for this course may be any of the following: (Blitzer is what I based my course on if you wish to buy one...go to Amazon or CHEGG)

Blitzer, R. (2018). College Algebra, 7<sup>th</sup> ed. New Jersey: Pearson Prentice Hall. ISBN 978-0-134-46916-4.

Blitzer, R. (2007). College Algebra, 6<sup>th</sup> ed. New Jersey: Pearson Prentice Hall. ISBN 978-0-321-78228-1.

Blitzer, R. (2010). College Algebra, 5<sup>th</sup> ed. New Jersey: Pearson Prentice Hall. ISBN 0-321-55983-5.

**GRAPHING CALCULATORS ARE NOT ALLOWED!**

**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

**Cell Phones:** In this class, the instructor reserves the right to ask a students to leave the class if a cell phone is left on and it disrupts the class. This instructor defines disrupting the class as allowing the phone to ring, vibrate in class or answering the phone in class. This is very disrespectful to your classmates and your instructor.

### **Course Evaluation:**

Your final grade will be the average of the major exams and the final exam. There will be no makeup exams given. A missed exam will receive a grade of 0. The final exam will be used to replace a missing test grade by being counted twice. If you miss an exam because you are quarantined you may take a different exam when you return. You are responsible for making these arrangements with your instructor.

A(90-100) B(80-89) C(70-79) D(60-69) F(0-59)

**Homework:** Homework will be assigned daily. Questions are taken at the next class period only. You are responsible for keeping up to date and prepared. No late homework will be accepted...no exceptions. Keeping up to date and current on homework has been shown to correlate with passing the course. Some short homework assignments will be done in class and turned in during the class. These in class assignments cannot be made up. Homework will be included on exam grades as bonus points.

**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.

Class: Math 1314.005/007 MW 9-10:45/12:30-2:15

Semester: Spring 2023

Instructor: Alma F. Lopez

M112/108

Office: M116D 806-716-2640

Email: [alopez@southplainscollege.edu](mailto:alopez@southplainscollege.edu)

Monday	Tuesday	Wednesday	Thursday	Friday
January 16 <b>MLK Holiday</b>	January 17	January 18 Syllabus, BB	January 19	January 20
January 23 1.2,1.3	January 24	January 25 1.4,1.5	January 26	January 27
January 30 1.6	January 31	February 1 1.7	February 2	February 3
February 6 Review	February 7	February 8 <b>Test 1</b>	February 9	February 10
February 13 2.1,2.2,2.6	February 14	February 15 2.3,2.4	February 16	February 17
February 20 2.8, Inverse Functions	February 21	February 22 3.1	February 23	February 24
February 27 Review	February 28	March 1 <b>Test 2</b>	March 2	March 3
March 6 3.2,3.3	March 7	March 8 3.4	March 9	March 10
March 13 <b>Spring Break</b>	March 14 <b>Spring Break</b>	March 15 <b>Spring Break</b>	March 16 <b>Spring Break</b>	March 17 <b>Spring Break</b>
March 20 3.5	March 21	March 22 3.6	March 23	March 24
March 27 Review	March 28	March 29 <b>Test 3</b>	March 30	March 31
April 3 4.1,compound interest	April 4	April 5 4.2,4.3	April 6	April 7 <b>Easter Holiday</b>
April 10 4.4	April 11	April 12 5.1,5.4	April 13	April 14
April 17 5.2,6.2	April 18	April 19 Binomial Thm, 5.5	April 20	April 21
April 24 Review	April 25	April 26 <b>Test 4</b>	April 27 <b>LDTD</b>	April 28
May 1 Topics/Final Review	May 2	May 3 Topics/Final Review	May 4	May 5
May 8	May 9	May 10 Final Exam Sect. 005 8-10 am Sect. 007 10:15-12:15	May 11	May 12 <b>Commencement</b>

Class: Math 1314.009 TT 9-10:45 M112

Semester: Spring 2023

Instructor: Alma F. Lopez

Office: M116D 806-716-2640

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May 8	May 9 Final 8-10 am	May 10	May 11	May 12 <b>Commencement</b>