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.

MATH 0314/1314 - College Algebra with Support Syllabus
Spring 2023

Instructor:	Jason Groves	**Office:**	AG107
e-mail:	jgroves@southplainscollege.edu		
Phone:	806-716-2739		
Office Hours:	Mon - Thurs 11 am - 12:30 pm, Fri 9 am - Noon		
	or by appointment		

Students are responsible for knowing the policies of SPC as an institution, and this information is available in the student handbook. Policies that are applied to all sections of this course per the Department of Math and Engineering are found in the common course policies preceding this document. Below are the course policies specific to this course section and this instructor.

Prerequisites: Appropriate score on TSI/TSIA2 exam or successful completion of NCBM0105.

Materials: The following materials are required for this course

Writing: Pencil and paper are required for taking notes during videos, while reading the text, or during class meetings, as well as taking quizzes and exams. Generally, I recommend having a spiral notebook dedicated to notes and solving problems for this class, and a folder for receiving returned/graded work.

Textbook: We will be using College Algebra with Intermediate Algebra by Beecher, Penna, Johnson, Bittinger in this class. You will find a digital copy of this on Blackboard if necessary.

Calculators: You will need a calculator with e^x and ln keys will be required. These can be found on scientific calculators (inexpensively obtained from Wal-Mart or any other big-box store) or graphing calculators (NOTE: graphing calculators are nice, but they are not required for this course). Online options exist such as Wolfram Alpha (wolframalpha.com), Desmos (www.desmos.com Desmos also has smartphone apps) or GeoGebra (www.geogebra.org). Smartphone apps such as Panecal or ClassCalc are also available for low cost (or free). All are great for doing homework or studying.
Please note that computer software and mobile apps will not be allowed on exams.

Computer: Access to a computer with stable internet connection will be required for viewing course materials as well as using other software (see "Calculators" above and "Blackboard" below). The use of Chromebooks or other computers running the Chrome Operating System (ChromeOS) is discouraged, as ChromeOS is not always compatable with the software we may be using during this course. If you do not have a computer you may find success using mobile devices in some cases, and there are also suitable computers via the computer labs found at every SPC campus.

Blackboard: Blackboard (accessible via the SPC website) will be used as a central hub for the course. Students will find this syllabus, and all other course materials, as well as assignments, grading rubrics, etc. You should be checking Blackboard daily for announcements and updates, and to access the homework. Blackboard utilizes your SPC email, thus you should also be checking your SPC email regularly.

Gradescope: Gradescope is an app that will be used for submitting written work of any form during this course. It will be how assignments are submitted, and how feedback from the grading process is viewed. If you do not have a smartphone or other mobile device, please speak with your instructor as soon as possible.

MyMathLab: We will be using MyMathLab for you to practice concepts and do many assignments. Instructions for registration/login are available on Blackboard. Make sure you have full access as soon as possible.

Assessment: Grading will be done according to the standard 10 percent scale (i.e. 100% - 90% is an A, etc.) with the following weights:

Assignments	20%
Exams	60%
Final Exam	20%

Please note that "Assignments" refers to all graded work that are not exams.

The grade for the support course (MATH0314) is graded as "Pass/Fail" using an appropriate selection of assignments from the course. Additionally, a passing grade of the college level course will result in an automatic passing grade in the support course.

Class Attendance: A "flipped" classroom is a learning environment in which students work with the material first on their own (via videos, homework and other media), and then come to class ready to ask questions, discuss the material, and work together to solve problems. It is your responsibility to come to class ready to discuss the material scheduled for that day on the course calendar. This means that you have watched the videos on the relevant assignments on MyMathLab and at least attempted some problems. The assignment does not have to be completed before coming to class.

Homework: We will be using MyMathLab for homework assignments. It is highly recommended that you spend some time doing homework as often as possible (I personally recommend a minimum of 5 days per week.) All homework assignments will have embedded lecture videos produced by Pearson that follow the text. Generally, homework has no fixed due date, in order to give you the maximum amount of time to practice, improve your homework average, and learn the material. But these homework exercises are relevant to written assignments, quizzes, and exams, which have fixed due dates. So it is important to get as much homework done as possible during the week it is assigned.

Quizzes: Online quizzes will be given weekly as a way to summarize material. Quizzes may also be given throughout the course at the end of class as a way to assess where the class stands with respect to a given topic. Online quizzes will have two attempts allowed. You may review your first attempt before starting your second attempt. Quizzes may not be postponed nor made up later.

Exams: Midterm exams are given during this course, exclusively during the in-class portions of the course. Questions will be similar to assigned problems from homework, quizzes, and class discussions (lecture/lab). During exams cell phones, smart-watches, laptops, and other such objects should be turned *off* and put away. There is no tolerance for violations. *Makeup exams are not given.*

Final Exam: The final exam is comprehensive, and a required part of the course. Failure to attend/attempt the final exam results in an automatic F. If, however, the final exam grade is better than the course average (which includes the final exam, as stated above), then the final exam grade will serve as the grade for the entire course. The Final Exam will take place Monday, May 8, at 8:00 am

Extra Credit: Extra credit is offered to students who have shown adequate participation in the course. This opportunity will apply to the grade for the support course first, and then to the college-level course if the support course grade is already passing. See document *Extra Credit Assignments* for details.

support grade only

support and level grade

support grade only

7.3 goes in here, too

support and level grade

level grade only