## South Plains College Common Course Syllabus: MATH 1314.208 Revised Spring 2022 Tuesday & Thursday 9:00-10:45AM

**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, Reese, Plainview, Lubbock 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 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 cannot 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.

#### COVID:

Consistent with the latest CDC recommendations, we have revised our guidance for students, faculty, and staff who have a known exposure or have tested positive. Anyone with a known exposure should wear a mask for 10 days and should seek a COVID-19 test on day five after exposure. If you test positive or develop symptoms, you should immediately self-isolate and seek a COVID-19 test. Please immediately notify your instructor, supervisor, and DeEtte Edens, Associate Director of Health and Wellness, any time you test positive for COVID-19. Anyone who tests positive is required to self-isolate for five days. Following the five-day isolation period, if you are asymptomatic or your symptoms are resolving, you may return to work or class but should wear a mask for five additional days. If you are still symptomatic, please contact DeEtte Edens at <a href="mailto:dedens@southplainscollege.edu">dedens@southplainscollege.edu</a> or 806-716-2376 prior to your return date.

**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 <u>activate</u> 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 <a href="mailto:emailt

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: <a href="http://www.southplainscollege.edu/campuscarry.php">http://www.southplainscollege.edu/campuscarry.php</a>

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.

## COURSE SPECIFIC INFORMATION FOR MATH 1314.208 T/Th 9:00-10:45 AM

Instructor: Larry Moffett

Email: Imoffett@southplainscollege.edu

Office: Reese Center, Building 2 Rm 215 Phone: (806)716-2528

Office hours: Office hours will be in my office, room 215.

Monday	Tuesday	Wednesday	Thursday	Friday
8:30-10:30	10:45-11:30	8:30-10:30	10:45-11:30	
	4:00-5:15		4:00-5:15	

If I am in my office, feel free to stop by without an appointment.

**Email:** All students at South Plains College are assigned an SPC email account. Although personal email addresses will continue to be collected, the assigned SPC email account will be used as the official channel of communication for South Plains College. Students should make it a habit to check their student email account frequently. (Copied from SPC Student Guide.)

Class Structure: All instructional material is on Blackboard. Each unit in Blackboard has homework, lecture notes, and videos to teach the material. You are expected to watch the videos, fill in the notes, and do homework before you come to class each week. The class will meet in person face to face (f2f) from 9:00 to 10:45 AM on Tuesday and Thursday at the Reese Center in room 218 of building two. If you must miss class for any reason, the notes and videos are provided for you on Blackboard. Stay current with lecture notes and homework. A three ring binder is required for organizing lecture notes, homework, labs, and tests. Check Blackboard and your SPC email often for any updates.

**Class Attendance**: Attendance and effort are the keys to success in this class. Five absences are allowed for the semester. If you exceed this number, you may be dropped from the course. The unauthorized use of a cell phone, leaving before class has ended, two tardies, or being ten minutes late are considered as absences.

Attending class and doing homework will improve college life.

#### Assignments & Grading:

<u>Practice Problems</u>: Practice problems will be used as a study guide for tests. Complete all practice problems to the best of your ability before class each day. Practice problems are on Blackboard with the solutions. Time will be given to ask questions each class day.

<u>Labs</u>: Labs consist of 5 -10 problems for the purpose of self assessing your understanding of the material. Answers are not provided for the labs. Labs will be completed in class without apps or websites but scientific calculators, notes, and practice problems may be used. **Always show your work**. Use a pencil for math. Questions may be asked about the practice problems before the lab is distributed, but the labs are to be completed without assistance.

Exams: You may use a scientific calculator on the exams but calculators on cell phones will not be permitted. The TI-30X II S calculator is recommended. Cell phones should be out of sight and not touched during exams. The use of any websites or apps during exams is considered cheating. You may bring one 3" X 5" notecard with formulas to use during the exam. Make-up exams will not be available. If you miss an exam for any reason, the final exam will take the place of the missed exam. If you miss two exams, you may be dropped from the course. If you know you will need to miss an exam, let me know before the exam so an alternate testing time can be arranged before the exam is taken in class. Hands must be visible during the test.

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## There will be 4 exams and a comprehensive final exam.

## **Determining Grades:**

Exam 1	20 %
Exam 2	20 %
Exam 3	20 %
Exam 4`	20 %
Final Exam	<u>20 %</u>
Total	100 %

## The letter grade is determined by the following scale:

Accumulated points	Final Grade	
90 and above	A	
80-89	В	
70-79	С	
60-69	D	
59 and below	F	

## To maximize potential for successfully completing this course:

- Attend class prepared to work.
- Print and complete notes provided on Blackboard prior to class.
- Complete all practice problems to the best of your ability prior to class.
- Ask questions on any problems that you had difficulties with.
- Rework the practice problems until you have mastered them.
- Organize all class material in a 3-ring binder (required).
- Read objectives from each lesson and determine if you have mastered the topic to prepare for the exams.

## Supplies:

- The **textbook** is **optional**. Notes with video links are provided on Blackboard. Practice problems with solutions are on Blackboard.
- scientific calculator (The TI-30X is a good and inexpensive option.)
- pencils, notebook paper, 3-ring binder, 3" x 5" notecards
- Computer or cell phone that you can use to check Blackboard and emails.

**Supplementary Course Information & Tutoring:** Blackboard is the online course management system that will be utilized for this course. This course syllabus, as well as any class handouts and assignments can be accessed through Blackboard. Login at <a href="http://southplainscollege.blackboard.com">http://southplainscollege.blackboard.com</a>. The user name and password should be the same as the MySPC and SPC email.

User name: first initial, last name, and last 4 digits of the Student ID

Password: Original CampusConnect Pin Number (found on SPC acceptance letter)

Questions regarding Blackboard support may be emailed to <u>blackboard@southplainscollege.edu</u> or by telephone 806-716-2180.

Tentative Course Schedule Math 1314.208 <u>T/Th 9-10:45 AM</u>

Week	Monday	Tuesday	Wednesday	Thursday
1		Jan.18, 2022 1 Linear & Rational Equations		20 2 Linear Applications Lab 1
2		25 3 Complex Numbers & Quadratic Equations Lab 2		27 4 Quadratic Equations Cont. Lab 3
3		Feb.1 5 Other Types of Equations Lab 4		3 6 Linear & Absolute Value Inequalities with Review Lab 5
4		8 EXAM 1		10 7 Functions & Their Graphs
5		15 8 Linear Functions Lab 7		17 9 Distance, Midpoint & Circles Lab 8
6		22 10 Composition and Inverse Functions Lab 9		24 11 Quadratic Functions Lab 10
7		March 1 11 Synthetic division & the rational root theorem Lab 11 Quadratic only		3 Exam 2
8		8 12 Polynomial & Rational Inequalities		10 13 Polynomial Functions and their Graphs Lab 12
9		22 14 Rational Functions and Their Graphs Lab 13		24 15 Exponential and Logarithmic Functions Lab 14
	Monday	Tuesday	Wednesday	Thursday

	Monday	Tuesday	Wednesday	Thursday
10		29 16 Properties of Logs Lab 15		31 17 Exponential and Logarithmic Equations Lab 16
11		April 5 18 Review Lab 17		7 Exam 3
12		12 19 2x2 and 3x3 Systems		14 20 Matrix Solutions Lab 19
13		19 21 Cramer's Rule Lab 20		21 22 Nonlinear Systems and Systems of Inequalities
14		26 Review		28 Exam 4
15		May 3 Review for Final		5 Review for Final
FINALS	May 9	May 10	May 11	May 12

# Note

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