

College Algebra

Math 0314/1314.C603

Syllabus

Gina Becker

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Downtown Center B018

806.716.4684

Office Hours: Downtown Center in the Basement, B018 unless otherwise noted.

Monday	Tuesday	Wednesday	Thursday	Friday
8:00 - 9:00	7:45 - 8:00	8:00 - 9:00	7:45 - 8:00	8:00 - 9:00
10:45 - 11:00 B004	9:15 - 11:00	10:45 - 11:00 B004	9:15 - 11:00	
	12:45 – 1:00 B004		12:45 – 1:00 B004	
Off Campus		Off Campus		

ATTENDANCE

- Your presence in class provides the best opportunity for you to pass.
- Course attendance will be taken at each class. Per South Plains College Math Department policy, you may be administratively dropped from the course if your number of missed submissions exceeds 20% of all submissions.
- Using your phone or leaving class for extended breaks disrupts your learning process.
- **No make up Quizzes or Exams due to absence will be offered.**

CLASS STRUCTURE

- This class meets in person twice daily, two days each week. You should print the notes and bring them with you to class to complete.
- If you must miss class for any reason, the completed notes may be found in Class Notebook and the recorded lecture may be found in Collaborate.

GRADING

	Homework	In Class Practice	Quizzes	Exams
Description	Assigned each day. Due the next day. Assignments will be uploaded to Gradescope.	Assigned each day. Assignments will be uploaded to Gradescope.	Weekly, given on non-exam weeks. Will cover the material from the previous week.	Given at the end of each unit. <i>The review counts as a homework grade.</i>
Number	Math 1314 - 27 homework assignments Math 0314 - 26 homework assignments <i>Late assignments are not accepted.</i>	Math 0314 -22 in class assignments <i>Credit will be given to students in class.</i>	Math 1314 - 8 quizzes Math 0314 - 12 quizzes <i>You must be present to take the quiz. No makeup offered.</i>	Math 1314 – 4 unit exams Math 1314 and Math 0314 – 1 Final Exam <i>You must be present to take the exam. No makeup offered.</i>
Points	Each homework is worth 0.3 points.	Each In Class Practice is worth 0.3 points.	Math 1314 - each quiz is worth 4 points. Math 0314 - each quiz is worth 5 points.	Each exam is worth 10 points. The Final Exam will be worth 20 points
Total Points for Math 1314	Math 1314 – 8 points		Math 1314 – 32 points	Exams 40 points Final Exam – 20 points <i>100 points total</i>
Total Points for Math 0314	Math 0314 – 5 points	Math 0314 – 5 points	Math 0314 – 60 points	Final Exam – 30 points <i>100 points total</i>

Grades assigned by point total:

Math 1314 A: 89.5 – 100 B: 79.5-89.4 C: 69.5 – 79.4 D: 59.5 – 69.4 F: Below 59.5

Math 0314 P: 69.5 – 100 F: Below 69.4

PASS THIS CLASS

Be present in class, both physically and mentally.

Print notes from Blackboard and bring to class. Use a 3-ring binder to keep them organized.

Complete homework on the day it is assigned. Then you will be able to ask questions, if needed.

Ask questions! When you send an email, send a picture of your work.

You may use your homework on your quiz. **Write the title for the assignment on the page.**

To receive full credit on practice problems and exams, you must show all work that leads to your answers. The work must be legible, make sense and be easy to follow. All work and answers should be handwritten.

The best way to study for a math exam is to practice working problems over and over again.

Supplies

- A textbook is not required for this course.
- Homework and notes will be provided on Blackboard.
- pencils, 3 ring binder and notebook paper, 3" x 5" notecards
Computer or cell phone that you can use to check Blackboard and emails and to upload your homework to Gradescope.
- Scientific Calculator (TI-30X IIS is a good and inexpensive option.)



YOUR HOMEWORK

Print your name at the top of the page and write the question number for each problem. Show all necessary work.

Clearly mark your answer and check the homework answers to ensure you are practicing correctly.

Submit the assignment using the Gradescope app before the deadline. Check the calendar.

OTHER INFORMATION

- **Communication:** Any questions or comments should be sent using SPC email. I will do my best to respond to your email within 24 hours of receipt. Any email sent on a weekend may not be answered until Monday.
- **Blackboard:** This course syllabus, as well as any class handouts and assignments may be accessed through Blackboard. Login at <http://southplainscollege.blackboard.com>. The username and password should be the same as the MySPC and SPC email.

Username: 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 blackboard@southplainscollege.edu or by telephone 806-716-2180.

- **SPC Tutoring Options: In Person:** 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, get to know the tutors 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 tutor.com link on the left-hand tool bar and grab a session with a tutor. You can access tutor.com tutors during the following times: Monday – Thursday: 8pm-8 am Friday 6 pm –Monday morning 8am Free tutoring is available through the college. Check Blackboard for additional information about tutoring.
- **Withdrawal from course:** Fill out the Student Initiated Drop Form found at <https://www.southplainscollege.edu/admission-aid/apply/schedulechanges.php>. SPC might not permit an undergraduate student to drop a total of more than six courses (including any course a transfer student has dropped at another institution of higher education.)

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.

Tentative Schedule

Week	Monday	Wednesday
1	August 25 Course Introduction Pre-Assessment	August 27 SC 1.1 Integers, Exponents and Combining Like Terms 1.1 Review Integers, Order of Operations, Exponents
2	September 1 Labor Day No class	September 3 SC 1.2 Multiplying Binomials and Solving Linear Equations SC Quiz 1 1.2 Operations on Polynomials; Linear Equations Quiz 1
3	September 8 SC 1.3 Linear Inequalities, Interval Notation; Absolute Value Equations and Inequalities 1.3 Linear Inequalities, Absolute Value Equations and Inequalities SC Quiz 2	September 10 SC 1.4 Factoring 1.4 Summary of Factoring 1.6 Review Quiz 2
4	September 15 SC 1.5 Square Roots and Radical Equations Introduction to Complex Numbers; 1.5 Roots, Radical Expressions and Complex Numbers SC Quiz 3	September 17 Exam 1 Review Exam 1
5	September 22 SC 2.1 Basics of Functions; Evaluating Functions and Symmetry 2.1 Basics of Functions, Analyzing Graphs; Evaluating Functions; Symmetry SC Quiz 4	September 24 SC 2.2 Functions: Transformations, Piecewise Functions; Combinations 2.2 Functions: Transformations, Increasing, Decreasing, Constant; Combinations and Piecewise Quiz 3
6	September 29 SC 2.3 Functions: Domain Composite Functions; Inverse Functions 2.3 Functions: Domain, Compositions, Inverse SC Quiz 5	October 1 SC 2.4 Linear Functions; Graphing; Intercepts; The Slope Formula; Slope-Intercept and Point-Slope Form; Parallel and Perpendicular Lines 2.4 Linear Functions: Slope, Graphing; Parallel and Perpendicular Lines Quiz 4
7	October 6 SC 2.5 Solving Quadratic Equations; Solving Radical Equations 2.5 Quadratic Equations and Radical Equations SC Quiz 6	October 8 SC 2.6 Parabolas and Their Properties; Graphing Quadratic Equations 2.6 Graph Quadratic Functions 2.7 Review Quiz 5
8	October 13 Unit 2 Exam Review Unit 2 Exam	October 15 SC 3.1 Synthetic Division, Rational Zeros 3.1 Synthetic Division; Polynomial Equations SC Quiz 7
9	October 20 SC 3.2 Graphing Polynomial Functions 3.2 Graphing Polynomial Functions SC Quiz 8	October 22 SC 3.3 Domain of Rational Expressions; Solving Rational Equations and Simplifying Rational Expressions 3.3 Rational Expressions and Rational Equations Quiz 6

10	October 27 SC 3.4 Graphing Rational Functions	October 29 SC 3.5 Polynomial and Rational Inequalities
	3.4 Graphing Rational Functions SC Quiz 9	3.5 Polynomial and Rational Inequalities 3.6 Review Quiz 7
11	November 3 Review for Exam	November 5 SC 4.1 Introduction to Exponential Functions and Logarithmic Functions
	Exam 3	4.1 Exponential Functions SC Quiz 10
12	November 10 SC 4.2 Factoring Review, Exponent Review Logarithm Properties	November 12 SC 4.3 Solving Exponential Equations and Logarithmic Equations
	4.2 Logarithmic Functions SC Quiz 11	4.3 Exponential and Logarithmic Equations 4.4 Unit 4 Review Quiz 8
13	November 17 Review for Exam	November 19 SC 5.1 Solving Systems of Linear Equations
	Exam 4	5.1 Solving Systems of Linear Equations SC Quiz 12
14	November 24 SC 5.2 Solving Systems of Linear Equations in 3 Variables; Matrices and Gaussian Elimination	November 26 Thanksgiving Break
	5.2 Systems of Linear Equations in Three Variables; Matrices, Gaussian Elimination and GJE SC Quiz 13	
15	December 1 SC 5.3 Determinants and Cramer's Rule	December 3- <i>Last Day to Withdraw</i> Final Exam Review
	5.3 Determinants and Solving Systems with Cramer's Rule Quiz 9	Final Exam Review
16	December 8 Final Exam Math 1314 10:15 – 12:15	

South Plains College
Common Course Syllabus: MATH 1314 and Math 0314

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

This course partially satisfies a Core Curriculum Requirement: Mathematics Foundational Component Area (020)

Course Number: MATH 0314

Course Title: College Algebra Support Course

Available Formats: conventional, hybrid, and internet

Campuses: Levelland, Downtown Center, and Plainview Center

Course Description: Math 0314 is to be taken concurrently with MATH 1314. Background topics which are necessary for a student to successfully complete MATH 1314 will be covered, with an emphasis on fractions, factoring polynomials, functions, exponents, and operating with radical and rational expressions.

Prerequisite: Minimum score of 340 on the TSIA1, minimum diagnostic score of 3 on the TSIA2, a successful completion with a grade of 'C' or better in MATH 0315, or a successful completion of NCBM-0105.

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

This course partially satisfies a Core Curriculum Requirement: None

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 cannot receive an X, the instructor will assign an F.

Academic Integrity (Plagiarism and Cheating Policy): "Complete honesty is required of the student in the presentation of any and all phases of course work. This idea applies to quizzes of whatever length as well as to final examinations, to daily reports, and to term papers" (SPC General Catalog).

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.

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 must 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 the 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.